

**CITY OF TEMPE, ARIZONA  
PUBLIC WORKS DEPARTMENT  
DIVISION OF ENGINEERING**

**May 14, 2010**

**CROSSCUT CANAL MULTI-USE PATH PHASE II  
PROJECT NO. 6002441  
ARRA PROJECT NO. TEA-TMP-0(202)A**

**ADDENDUM NO. 1:**

The original contract documents are modified or interpreted as stated herein. Receipt of this Addendum No. 1 shall be acknowledged by inserting its number and date in the space provided on the bid sheet page B-6. Failure to acknowledge this Addendum may subject bidder to disqualification.

This Addendum No. 1 consists of 47 pages.

**3.3. PRE-CONSTRUCTION MEETING**

Replace the entire section with the following:

Contractor shall meet with the Engineer for a preconstruction conference prior to commencing work. The conference may be combined with the partnering conference, and all requirements of this subsection may be submitted at that time. Should both conferences be held at the same time, the partnering conference will be held first.

At the preconstruction conference Contractor shall submit a progress schedule showing the order in which Contractor proposes to carry out the work, the dates on which Contractor and its subcontractors will start the salient features of the work, including procurement of materials, equipment, etc.; the ordering of articles of special manufacture; the furnishing of drawings, plans and other data for the review and approval of the Engineer; the inspection of structural steel fabrication; and the contemplated dates for the completion of the said salient features. The schedule may be in a bar chart format or a critical path method format. No schedule activity shall be shorter than one day or longer than 15 working days. The schedule must show interrelationships among the activities, and the controlling items of work throughout the project shall be identified. If requested by the Engineer, Contractor shall furnish information needed to justify activity time durations. Such information shall include estimated manpower, equipment, unit quantities, and production rates. The schedule shall illustrate the completion of the work not later than the contract completion date.

Contractor shall furnish authorized signature forms and a list of Contractor's proposed subcontractors and major material suppliers.

Progress schedules shall have considered the time requirement for ordering articles of special manufacture to meet specific requirements of the work when structural steel fabrication inspection is required.



*Expires 6-30-2012*

Contractor shall also submit a traffic control plan in accordance with ADOT Standard Specifications Subsection 701-1. Contractor shall designate an employee who is competent and experienced in traffic control to implement and monitor the traffic control plan. The qualifications of the designated employee must be satisfactory to the Engineer.

Contractor shall submit a safety plan and designate an employee as Safety Supervisor, in accordance with ADOT Standard Specifications Subsection 107.08.  
Both plans must be satisfactory to the Engineer.

If approved by the Engineer, Contractor may designate one employee to be responsible for both the traffic control and safety plans. Contractor shall not designate its superintendent as the responsible person for either the traffic control plan or the safety plan, unless approved by the Engineer.

If the project requires that Contractor or City personnel to work from falsework, within shoring, or in any other hazardous area, Contractor shall submit as part of Contractor's safety plan specific measures it will use to ensure worker safety.

Contractor shall also submit a program for erosion control and pollution prevention, as set forth in ADOT Standard Specifications Subsection 104.09, on all projects involving clearing and grubbing, earthwork, structural work, or other construction, when such work is likely to create erosion or pollution problems.

If Contractor fails to provide the required submissions, the Engineer may order the preconstruction conference suspended until such time as they are furnished. Work shall not begin until the preconstruction conference has been concluded and the safety plan has been approved, unless authorized by the Engineer. Contractor shall not be entitled to additional compensation or an extension of contract time resulting from any delays due to such a suspension.

When the specifications require specific quality control measures for certain materials, Contractor shall designate a qualified employee as Quality Control Manager. The Quality Control Manager shall be responsible for the implementing and monitoring of the quality control requirements described in ADOT Standard Specifications Subsection 106.04(C).

#### **4.1. SEALED BIDS**

The bid opening date is revised from 9:00 a.m. on May 19, 2010, to **9:00 a.m. on May 26, 2010.**

#### **EXHIBIT 8.1. WAGE DETERMINATION**

Add the attached Wage Determination AZ100013, dated March 26, 2010.

#### **EXHIBIT 8.3. COMPETITIVE SEALED BID**

Replace bid sheets B-2 through B-5 with the revised bid sheets B-2 through B5 attached hereto.

#### **EXHIBIT 8.4. BIDDERS PROJECT REFERENCES**

Omit Exhibit 8.4. Bidders Project References, page PR-1.

#### **EXHIBIT 8.15. STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS**

Replace Exhibit 8.15. with the revised Exhibit 8.15 attached hereto.

#### **TECHNICAL SPECIFICATIONS**

##### **Section 01 20 01**

Replace the entire section with the revised Section 01 20 01 attached hereto.

##### **Section 26 56 70**

##### **Part 2 PRODUCTS**

##### **1.2 General – Solar Powered Light Fixtures**

##### **A. 2. Light Fixture Assembly**

##### **a. Construction:**

Add the following language:

- 5) “Dark Sky Certified, Full Cutoff Classified as described by the IESNA (International Engineering Society of North America); no light emitted at, or greater than, 90 degrees above Nadir and 100 candela per 1000 lumens at 80 degrees.”

##### **Section 26 56 70**

##### **Part 2 PRODUCTS**

##### **1.2 General – Solar Powered Light Fixtures**

##### **A. 2. Light Fixture Assembly**

##### **a. Performance:**

Replace with the following language:

- 3) “75W of high brightness LEDs only (>80 lumens/Watt) per LED. 5 mm type LEDs are not acceptable.”

##### **Section 26 56 70**

##### **Part 2 PRODUCTS**

##### **1.2 General – Solar Powered Light Fixtures**

##### **A. 3. System Electronics**

##### **a. Construction:**

Add the following language:

- 8) “Provide disconnecting means, for both battery to luminaire and PV Modules to battery, in accordance with NEC Articles 690.15 and 690.33.”

**Section 31 23 16.26**  
**Part 3 EXECUTION**  
**3.2 – Construction**

Delete the following language:

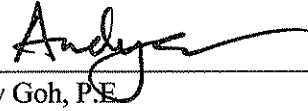
- A. “Apply simulated desert varnish to scar damage on finished rockwork based upon field tests.”

**PLAN SHEET REVISIONS AND ADDITIONS**

1. Plan Sheet 4 – **Add** attached detail CSK001.
2. Plan Sheet 5 – **Replace Safety Rail Table** with attached detail CSK002. The rail table is revised to specify three separate types of rail.
3. Plan Sheet 12 – **Replace** with attached detail CSK003.
4. Plan Sheet 18 – **Reference** attached detail LSK001. Add two ADA signs. Place at Station 31+36.50, 9.0’ Right and Station 33+33.00, 11.25’ Left.
5. Plan Sheet 23 – **Add** attached detail CSK004.
6. Plan Sheet 25 – **Reference** attached detail LSK001. Add two ADA signs. Place at Station 55+52.00, 9.0’ Right and Station 58+32.50, 9.0’ Right.
7. Plan Sheet 25 – **Add** attached detail CSK005. Add a 6” thick concrete pad adjacent to the new path for the entrance to the SRP yard.
8. Plan Sheet 59 – **Replace** Key Note 0.8 with the following language: “Artist Designed Specialty Pavement. Contractor shall coordinate with Artist regarding final pattern, sandblast masking technique, and execution.”
9. Plan Sheet 88 – **Add** the following note: “The existing SRP access gates and support columns shall be preserved in place.”
10. Plan Sheets 102 through 105 – **Replace** Legend with the following language: “New solar powered shoebox LED fixture. See detail Sheet 106. Exact location to be field verified.”
11. Plan Sheet 106 - **Replace** detail 1 with attached detail ESK001.
12. Additional Details – ADA handrail (LSK002), and Removable handrail mount sleeve (LSK003) and (LSK004).

## **GEOTECHNICAL REPORTS**

There are two (2) Geotechnical Reports that are available to download from our website at <http://www.tempe.gov/engineering/bidding.htm>.

A handwritten signature in black ink, appearing to read "Andy Goh", written over a horizontal line.

Andy Goh, P.E.  
Deputy PW Manager/City Engineer

## 8.1. WAGE DETERMINATION

General Decision Number: AZ100013 03/26/2010 AZ13

Superseded General Decision Number: AZ20080013

State: Arizona

Construction Type: Highway

Counties: Coconino, Maricopa, Mohave, Pima, Pinal, Yavapai  
and Yuma Counties in Arizona.

### HIGHWAY CONSTRUCTION PROJECTS

| Modification Number | Publication Date |
|---------------------|------------------|
| 0                   | 03/12/2010       |
| 1                   | 03/19/2010       |
| 2                   | 03/26/2010       |

CARP0408-005 07/01/2009

|  | Rates    | Fringes |
|--|----------|---------|
| CARPENTER (Including Cement<br>Form Work)..... | \$ 23.58 | 7.24    |

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\* ENGI0428-001 06/01/2009

|                           | Rates    | Fringes |
|---------------------------|----------|---------|
| OPERATOR: Power Equipment |          |         |
| Group 1.....              | \$ 20.89 | 9.31    |
| Group 2.....              | \$ 24.16 | 9.31    |
| Group 3.....              | \$ 25.24 | 9.31    |
| Group 4.....              | \$ 26.27 | 9.31    |

### POWER EQUIPMENT OPERATORS CLASSIFICATIONS:

GROUP 1: A-frame boom truck, air compressor, Beltcrete, boring bridge and texture, brakeman, concrete mixer (skip type), conductor, conveyor, cross timing and pipe float, curing machine, dinky (under 20 tons), elevator hoist (Husky and similar), firemen, forklift, generator (all), handler, highline cableway signalman, hydrographic mulcher, joint inserter, jumbo finishing machine, Kolman belt loader, machine conveyor, multiple power concrete saw, pavement breaker, power grizzly, pressure grout machine, pump, self-propelled chip spreading machine, slurry seal machine (Moto paver driver), small self-propelled compactor (with blade-backfill, ditch operation), straw blower, tractor (wheel type), tripper, tugger (single drum), welding machine, winch truck

#### GROUP 2:

ALL COUNTIES INCLUDING MARICOPA: Aggregate Plant, Asphalt plant Mixer, Bee Gee, Boring Machine, Concrete Pump, Concrete Mechanical Tamping-Spreading Finishing Machine, Concrete Batch Plant, Concrete Mixer (paving & mobile), Elevating Grader (except as otherwise classified), Field Equipment Serviceman, Locomotive Engineer (including Dinky 20 tons & over), Moto-Paver, Oiler-Driver, Operating Engineer Rigger, Power Jumbo Form Setter, Road Oil Mixing Machine, Self-Propelled Compactor (with blade-grade

operation), Slip Form (power driven lifting device for concrete forms), Soil Cement Road Mixing Machine, Pipe-Wrapping & Cleaning Machine (stationary or traveling), Surface Heater & Planer, Trenching Machine, Tugger (2 or more drums).

MARICOPA COUNTY ONLY: Backhoe < 1 cu yd, Motor Grader (rough), Scraper (pneumatic tired), Roller (all types asphalt), Screed, Skip Loader (all types 3<6 cu yd), Tractor (dozer, pusher-all).

GROUP 3:

ALL COUNTIES INCLUDING MARICOPA: Auto Grade Machine, Barge, Boring Machine (including Mole, Badger & similar type directional/horizontal), Crane (crawler & pneumatic 15>100 tons), Crawler type Tractor with boom attachment & slope bar, Derrick, Gradall, Heavy Duty Mechanic-Welder, Helicopter Hoist or Pilot, Highline Cableway, Mechanical Hoist, Mucking Machine, Overhead Crane, Pile Driver Engineer (portable, stationary or skid), Power Driven Ditch Lining or Ditch Trimming Machine, Remote Control Earth Moving Machine, Slip Form Paving Machine (including Gunnert, Zimmerman & similar types), Tower Crane or similar type.

MARICOPA COUNTY ONLY: Backhoe<10 cu yd, Clamshell < 10 cu yd, Concrete Pump (truck mounted with boom only), Dragline <10 cu yd, Grade Checker, Motor Grader (finish-any type power blade), Shovel < 10 cu yd.

GROUP 4: Backhoe 10 cu yd and over, Clamshell 10 cu yd and over, Crane (pneumatic or crawler 100 tons & over), Dragline 10 cu yd and over, Shovel 10 cu yd and over.

All Operators, Oilers, and Motor Crane Drivers on equipment with Booms, except concrete pumping truck booms, including Jibs, shall receive \$0.01 per hour per foot over 80 ft in addition to regular rate of pay

Premium pay for performing hazardous waste removal \$0.50 per hour over base rate.

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IRON0075-004 08/01/2009

COCONINO, MARICOPA, MOHAVE, YAVAPAI & YUMA COUNTIES

|   | Rates    | Fringes |
|---|----------|---------|
| Ironworker, Rebar   |          |         |
| Zone 1.....   | \$ 26.52 | 17.59   |
| Zone 1: 0 to 50 miles from City Hall in Phoenix or Tucson |          |         |
| Zone 2: 050 to 100 miles - Add \$4.00                     |          |         |
| Zone 3: 100 to 150 miles - Add \$5.00                     |          |         |
| Zone 4: 150 miles & over - Add \$6.50                     |          |         |

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LABO0383-002 06/01/2009

|              | Rates    | Fringes |
|--------------|----------|---------|
| Laborers:    |          |         |
| Group 1..... | \$ 16.72 | 4.35    |
| Group 2..... | \$ 17.70 | 4.35    |

|              |          |      |
|--------------|----------|------|
| Group 3..... | \$ 18.46 | 4.35 |
| Group 4..... | \$ 19.50 | 4.35 |
| Group 5..... | \$ 20.44 | 4.35 |

#### LABORERS CLASSIFICATIONS:

GROUP 1: All Counties: Chipper, Rip Rap Stoneman. Pinal County Only: General/Cleanup Laborer. Maricopa County Only: Flagger.

GROUP 2: Asphalt Laborer (Shoveling-excluding Asphalt Raker or Ironer), Bander, Cement Mason Tender, Concrete Mucker, Cutting Torch Operator, Fine Grader, Guinea Chaser, Power Type Concrete Buggy

GROUP 3: Chain Saw, Concrete Small Tools, Concrete Vibrating Machine, Cribber & Shorer (except tunnel), Hydraulic Jacks and similar tools, Operator and Tender of Pneumatic and Electric Tools (not herein separately classified), Pipe Caulker and Back-Up Man-Pipeline, Pipe Wrapper, Pneumatic Gopher, Pre-Cast Manhole Erector, Rigger and Signal Man-Pipeline

GROUP 4: Air and Water Washout Nozzleman; Bio-Filter, Pressman, Installer, Operator; Scaffold Laborer; Chuck Tender; Concrete Cutting Torch; Gunite; Hand-Guided Trencher; Jackhammer and/or Pavement Breaker; Scaler (using boson's chair or safety belt); Tamper (mechanical all types).

GROUP 5: AC Dumpman, Asbestos Abatement, Asphalt Raker II, Drill Doctor/Air Tool Repairman, Hazardous Waste Removal, Lead Abatement, Lead Pipeman, Process Piping Installer, Scaler (Driller), Pest Technician/Weed Control, Scissor Lift, Hydro Mobile Scaffold Builder.

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PAIN0086-001 04/01/2009

|   | Rates    | Fringes |
|---|----------|---------|
| PAINTER   |          |         |
| PAINTER (Yavapai County only), SAND BLASTER/WATER BLASTER (all Counties).....         | \$ 19.35 | 4.70    |
| ZONE PAY: More than 100 miles from Old Phoenix Courthouse \$3.50 additional per hour. |          |         |

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\* SUAZ2009-001 04/20/2009

|                              | Rates    | Fringes |
|------------------------------|----------|---------|
| CEMENT MASON.....            | \$ 19.28 | 3.99    |
| ELECTRICIAN.....             | \$ 22.84 | 6.48    |
| IRONWORKER (Rebar)           |          |         |
| Pima County.....             | \$ 23.17 | 14.83   |
| Pinal County.....            | \$ 20.27 | 8.35    |
| LABORER                      |          |         |
| Asphalt Raker.....           | \$ 15.49 | 3.49    |
| Compaction Tool Operator.... | \$ 14.59 | 2.91    |



|   |          |      |
|---|----------|------|
| Concrete Worker.....  | \$ 13.55 | 3.20 |
| Concrete/Asphalt Saw.....                                   | \$ 13.95 | 2.58 |
| Driller-Core, diamond,<br>wagon, air track.....             | \$ 16.94 | 3.12 |
| Dumpman Spotter.....  | \$ 14.99 | 3.16 |
| Fence Builder.....  | \$ 13.28 | 2.99 |
| Flagger   |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 12.35 | 1.59 |
| Formsetter.....   | \$ 16.09 | 3.97 |
| General/Cleanup Laborer                                     |          |      |
| Coconino, Maricopa,<br>Mohave, Pima, Yavapai &<br>Yuma..... | \$ 14.54 | 3.49 |
| Grade Setter (Pipeline).....                                | \$ 17.83 | 5.45 |
| Guard Rail Installer.....                                   | \$ 13.28 | 2.99 |
| Landscape Laborer.....                                      | \$ 11.39 |      |
| Landscape Sprinkler<br>Installer.....                       | \$ 15.27 |      |
| Pipelayer.....  | \$ 14.81 | 2.96 |
| Powderman, Hydrasonic.....                                  | \$ 16.39 | 2.58 |
| OPERATOR: Power Equipment                                   |          |      |
| Asphalt Laydown Machine.....                                | \$ 21.19 | 6.05 |
| Backhoe < 1 cu yd   |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 17.37 | 3.85 |
| Backhoe < 10 cu yd  |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 18.72 | 3.59 |
| Clamshell < 10 cu yd  |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 18.72 | 3.59 |
| Concrete Pump (Truck<br>Mounted with boom only)             |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 19.92 | 7.10 |
| Crane (under 15 tons).....                                  | \$ 21.35 | 7.36 |
| Dragline (up to 10 cu yd)                                   |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 18.72 | 3.59 |
| Drilling Machine<br>(including Water Wells).....            | \$ 20.58 | 5.65 |
| Grade Checker   |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 16.04 | 3.68 |
| Hydrographic Seeder.....                                    | \$ 15.88 | 7.67 |
| Mass Excavator.....   | \$ 20.97 | 4.28 |
| Milling Machine/Rotomill.....                               | \$ 21.42 | 7.45 |
| Motor Grader (Finish-any<br>type power blade)               |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 21.92 | 4.66 |
| Motor Grader (Rough)  |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 20.07 | 4.13 |
| Oiler.....  | \$ 18.15 | 8.24 |
| Power Sweeper.....  | \$ 16.76 | 4.44 |
| Roller (all types Asphalt)                                  |          |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....       | \$ 18.27 | 3.99 |
| Roller (excluding asphalt)..<                               | \$ 15.65 | 3.32 |
| Scraper (pneumatic tired)                                   |          |      |

|   |      |
|---|------|
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....\$ 17.69 | 3.45 |
| Screed  |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....\$ 17.54 | 3.72 |
| Shovel < 10 cu yd   |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....\$ 18.72 | 3.59 |
| Skip Loader (all types <3<br>cu yd).....\$ 18.28              | 5.30 |
| Skip Loader (all types 3 <<br>6 cu yd)                        |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....\$ 18.64 | 4.86 |
| Skip Loader (all types 6 <<br>10 cu yd).....\$ 20.15          | 4.52 |
| Tractor (dozer, pusher -<br>all)                              |      |
| Coconino, Mohave, Pima,<br>Pinal, Yavapai & Yuma.....\$ 17.26 | 2.65 |
| PAINTER   |      |
| Coconino, Maricopa,<br>Mohave, Pima, Pinal & Yuma..\$ 15.57   | 3.92 |
| TRUCK DRIVER  |      |
| 2 or 3 Axle Dump or<br>Flatrack.....\$ 16.27                  | 3.30 |
| 5 Axle Dump or Flatrack.....\$ 13.97                          | 2.89 |
| 6 Axle Dump or Flatrack (<<br>16 cu yd).....\$ 17.79          | 6.42 |
| Belly Dump.....\$ 14.67                                       |      |
| Oil Tanker Bootman.....\$ 22.03                               |      |
| Self-Propelled Street<br>Sweeper.....\$ 13.11                 | 5.48 |
| Water Truck 2500 < 3900<br>gallons.....\$ 18.14               | 4.55 |
| Water Truck 3900 gallons<br>and over.....\$ 15.92             | 3.33 |
| Water Truck under 2500<br>gallons.....\$ 15.94                | 4.16 |

WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

Unlisted classifications needed for work not included within  
the scope of the  
classifications listed may be added after award only as  
provided in the labor  
standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates  
listed under the  
identifier do not reflect collectively bargained wage and  
fringe benefit  
rates. Other designations indicate unions whose rates have  
been determined  
to be prevailing.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested  
party may appeal directly to the Administrative Review Board  
(formerly the  
Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

# City of Tempe

Project No. 6002441  
Crosscut Canal Multi-Use Path Phase II



## Base Bid

| Item No. | Item Name                            | Quantity | Unit | Unit Cost | Total Cost |
|----------|--------------------------------------|----------|------|-----------|------------|
| 1        | Shrubs, groundcover, accent - 1 Gal  | 65       | EA   |           |            |
| 2        | Shrubs, groundcover, accent - 5 Gal. | 221      | EA   |           |            |
| 3        | 36" Box Trees                        | 25       | EA   |           |            |
| 4        | 48" Box Trees                        | 27       | EA   |           |            |
| 5        | Ocotillo - 6 ft. / 6-8 cane          | 12       | EA   |           |            |
| 6        | Irrigation (PVC drip) System         | 1        | LS   |           |            |
| 7        | Duff and Field Stone from Site       | 66000    | SF   |           |            |
| 8        | Concrete enhancements - colors       | 70550    | SF   |           |            |
| 9        | Pre-emergement Weed Control          | 21800    | SF   |           |            |
| 10       | Fine Grading                         | 1        | LS   |           |            |
| 11       | SDG - Stabilized DG Pavement         | 1300     | SF   |           |            |
| 12       | Landscape Establishment              | 1        | LS   |           |            |
| 13       | Bench - Crosscut Canal Standard      | 6        | EA   |           |            |
| 14       | Bench - Gabion                       | 7        | EA   |           |            |
| 15       | Trash Receptacle                     | 6        | EA   |           |            |
| 16       | Bike Rack                            | 5        | EA   |           |            |
| 17       | Frisbee Golf Adjustments             | 1        | LS   |           |            |
| 18       | Monument Sign - Node                 | 5        | EA   |           |            |

|    |  |         |        |        |
|----|--|---------|--------|--------|
| 19 | Monument Sign - Project                          | 2 EA    |        |        |
| 20 | Steel Edge Header - 6" x 1/4"                    | 100 LF  |        |        |
| 21 | Tree Grate                                       | 2 EA    |        |        |
| 22 | Selective Demo                                   | 1 LS    |        |        |
| 23 | Selective Salvage                                | 1 LS    |        |        |
| 24 | Gabion Columns                                   | 25 EA   |        |        |
| 25 | Sandblasting of pavements                        | 1 LS    |        |        |
| 26 | Boulders   | 10 TN   |        |        |
| 27 | DELETED ITEM                                     | 0 LS    | \$0.00 | \$0.00 |
| 28 | DELETED ITEM                                     | 0 LS    | \$0.00 | \$0.00 |
| 29 | DELETED ITEM                                     | 0 LS    | \$0.00 | \$0.00 |
| 30 | Installation of Art - Non-pay by Contractor      | 0 LS    | \$0.00 | \$0.00 |
| 31 | Excavation                                       | 1 LS    |        |        |
| 32 | Borrow   | 1 LS    |        |        |
| 33 | Pavement Removal - Asphalt                       | 78 SY   |        |        |
| 34 | Remote Concrete Sidewalk                         | 2413 SF |        |        |
| 35 | Remove Existing Stone Wall                       | 165 LF  |        |        |
| 36 | 18" RGRCP, class III                             | 65 LF   |        |        |
| 37 | 15" RGRCP, class III                             | 2 LF    |        |        |
| 38 | 18" CMP  | 188 LF  |        |        |
| 39 | Outlet structure                                 | 1 EA    |        |        |
| 40 | Reset frame and cover for Manhole                | 1 EA    |        |        |
| 41 | Catch basin MAG 535, Type F                      | 2 EA    |        |        |
| 42 | Headwall, MAG 501-1&2 U type for 18" pipe        | 1 EA    |        |        |
| 43 | Headwall, MAG 501-1&2 straight type for 18" pipe | 1 EA    |        |        |



|    |   |          |
|----|---|----------|
| 68 | North Bridge 36" dia. Drilled Shafts                      | 114 LF   |
| 69 | North Bridge Structural Excavation                        | 70 CY    |
| 70 | North Bridge Structure Backfill                           | 35 CY    |
| 71 | North Bridge Removal Channel Lining                       | 1 LS     |
| 72 | North Bridge Reinforced Channel Lining                    | 780 SF   |
| 73 | Solar Powered Light System                                | 17 EA    |
| 74 | Pole and Concrete Foundation for Solar Power Light System | 17 EA    |
| 75 | Mobilization/ Demobilization                              | 1 LS     |
| 76 | Construction Surveying and Layout                         | 1 LS     |
| 77 | Hallman Park Path segment (Sta. 49.50 to 62.15)           | 1 LS     |
| 78 | Traffic Control   | 1 LS     |
| 79 | AZPDES Permit (SWPPP)                                     | 1 LS     |
| 80 | Sign & Post at ADA Path                                   | 4 EA     |
| 81 | Dumped Rip Rap, D50=6"                                    | 13724 SF |
| 82 | Grouted Rip Rap, D50=6"                                   | 1800 SF  |
| 83 | Fixed Hand Rail   | 512 LF   |
| 84 | Removable Hand Rail                                       | 64 LF    |
| 85 | Truncated Domes   | 128 SF   |

**Total Base Bid:**



**STANDARD FEDERAL EQUAL OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS****Executive Order 11246 — Equal Employment Opportunity**

SOURCE: The provisions of Executive Order 11246 of Sept. 24, 1965, appear at 30 FR 12319, 12935, 3 CFR, 1964-1965 Comp., p.339, unless otherwise noted.

Under and by virtue of the authority vested in me as President of the United States by the Constitution and statutes of the United States, it is ordered as follows:

**Part I — Nondiscrimination in Government Employment**

[Part I superseded by EO 11478 of Aug. 8, 1969, 34 FR 12985, 3 CFR, 1966-1970 Comp., p. 803]

**Part II - Nondiscrimination in Employment by Government Contractors and Subcontractors****Subpart A - Duties of the Secretary of Labor**

**SEC. 201.** The Secretary of Labor shall be responsible for the administration and enforcement of Parts II and III of this Order. The Secretary shall adopt such rules and regulations and issue such orders as are deemed necessary and appropriate to achieve the purposes of Parts II and III of this Order.

[Sec. 201 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**Subpart B - Contractors' Agreements**

**SEC. 202.** Except in contracts exempted in accordance with Section 204 of this Order, all Government contracting agencies shall include in every Government contract hereafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
2. The contractor will, in all solicitations or advancements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
3. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept. 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
7. The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States." [Sec. 202 amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966-1970 Comp., p. 684, EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

#### **SEC. 203.**

- a. Each contractor having a contract containing the provisions prescribed in Section 202 shall file, and shall cause each of his subcontractors to file, Compliance Reports with the contracting agency or the Secretary of Labor as may be directed. Compliance Reports shall be filed within such times and shall contain such information as to the practices, policies, programs, and employment policies, programs, and employment statistics of the contractor and each subcontractor, and shall be in such form, as the Secretary of Labor may prescribe.
- b. Bidders or prospective contractors or subcontractors may be required to state whether they have participated in any previous contract subject to the provisions of this Order, or any preceding similar Executive order, and in that event to submit, on behalf of themselves and their proposed subcontractors, Compliance Reports prior to or as an initial part of their bid or negotiation of a contract.
- c. Whenever the contractor or subcontractor has a collective bargaining agreement or other contract or understanding with a labor union or an agency referring workers or providing or supervising apprenticeship or training for such workers, the Compliance Report shall include such information as to such labor union's or agency's practices and policies affecting compliance as the Secretary of Labor may prescribe: Provided, That to the extent such information is within the exclusive possession of a labor union or an agency referring workers or providing or supervising apprenticeship or training and such labor union or agency shall refuse to furnish such information to the contractor, the contractor shall so certify to the Secretary of Labor as part of its Compliance Report and shall set forth what efforts he has made to obtain such information.

- d. The Secretary of Labor may direct that any bidder or prospective contractor or subcontractor shall submit, as part of his Compliance Report, a statement in writing, signed by an authorized officer or agent on behalf of any labor union or any agency referring workers or providing or supervising apprenticeship or other training, with which the bidder or prospective contractor deals, with supporting information, to the effect that the signer's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin, and that the signer either will affirmatively cooperate in the implementation of the policy and provisions of this Order or that it consents and agrees that recruitment, employment, and the terms and conditions of employment under the proposed contract shall be in accordance with the purposes and provisions of the order. In the event that the union, or the agency shall refuse to execute such a statement, the Compliance Report shall so certify and set forth what efforts have been made to secure such a statement and such additional factual material as the Secretary of Labor may require.

[Sec. 203 amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966-1970 Comp., p. 684; EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

## **SEC. 204**

- a. The Secretary of Labor may, when the Secretary deems that special circumstances in the national interest so require, exempt a contracting agency from the requirement of including any or all of the provisions of Section 202 of this **Order** in any specific contract, subcontract, or purchase order.
- b. The Secretary of Labor may, by rule or regulation, exempt certain classes of contracts, subcontracts, or purchase orders (1) whenever work is to be or has been performed outside the United States and no recruitment of workers within the limits of the United States is involved; (2) for standard commercial supplies or raw materials; (3) involving less than specified amounts of money or specified numbers of workers; or (4) to the extent that they involve subcontracts below a specified tier.
- c. Section 202 of this **Order** shall not apply to a Government contractor or subcontractor that is a religious corporation, association, educational institution, or society, with respect to the employment of individuals of a particular religion to perform work connected with the carrying on by such corporation, association, educational institution, or society of its activities. Such contractors and subcontractors are not exempted or excused from complying with the other requirements contained in this **Order**.
- d. The Secretary of Labor may also provide, by rule, regulation, or order, for the exemption of facilities of a contractor that are in all respects separate and distinct from activities of the contractor related to the performance of the contract: provided, that such an exemption will not interfere with or impede the effectuation of the purposes of this **Order**; and provided further, that in the absence of such an exemption all facilities shall be covered by the provisions of this **Order**."

[Sec. 204 amended by EO 13279 of Dec. 16, 2002, 67 FR 77141, 3 CFR, 2002 Comp., p. 77141 - 77144]

## **Subpart C - Powers and Duties of the Secretary of Labor and the Contracting Agencies**

**SEC. 205.** The Secretary of Labor shall be responsible for securing compliance by all Government contractors and subcontractors with this Order and any implementing rules or regulations. All contracting agencies shall comply with the terms of this Order and any implementing rules, regulations, or orders of the Secretary of Labor. Contracting agencies shall

cooperate with the Secretary of Labor and shall furnish such information and assistance as the Secretary may require.

[Sec. 205 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 206.**

- a. The Secretary of Labor may investigate the employment practices of any Government contractor or subcontractor to determine whether or not the contractual provisions specified in Section 202 of this Order have been violated. Such investigation shall be conducted in accordance with the procedures established by the Secretary of Labor.
- b. The Secretary of Labor may receive and investigate complaints by employees or prospective employees of a Government contractor or subcontractor which allege discrimination contrary to the contractual provisions specified in Section 202 of this Order.

[Sec. 206 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 207.** The Secretary of Labor shall use his/her best efforts, directly and through interested Federal, State, and local agencies, contractors, and all other available instrumentalities to cause any labor union engaged in work under Government contracts or any agency referring workers or providing or supervising apprenticeship or training for or in the course of such work to cooperate in the implementation of the purposes of this Order. The Secretary of Labor shall, in appropriate cases, notify the Equal Employment Opportunity Commission, the Department of Justice, or other appropriate Federal agencies whenever it has reason to believe that the practices of any such labor organization or agency violate Title VI or Title VII of the Civil Rights Act of 1964 or other provision of Federal law.

[Sec. 207 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 208.**

- a. The Secretary of Labor, or any agency, officer, or employee in the executive branch of the Government designated by rule, regulation, or order of the Secretary, may hold such hearings, public or private, as the Secretary may deem advisable for compliance, enforcement, or educational purposes.
- b. The Secretary of Labor may hold, or cause to be held, hearings in accordance with Subsection of this Section prior to imposing, ordering, or recommending the imposition of penalties and sanctions under this Order. No order for debarment of any contractor from further Government contracts under Section 209(6) shall be made without affording the contractor an opportunity for a hearing.

**Subpart D - Sanctions and Penalties**

**SEC. 209.** In accordance with such rules, regulations, or orders as the Secretary of Labor may issue or adopt, the Secretary may:

1. Publish, or cause to be published, the names of contractors or unions which it has concluded have complied or have failed to comply with the provisions of this Order or of the rules, regulations, and orders of the Secretary of Labor.
2. Recommend to the Department of Justice that, in cases in which there is substantial or material violation or the threat of substantial or material violation of the contractual

provisions set forth in Section 202 of this Order, appropriate proceedings be brought to enforce those provisions, including the enjoining, within the limitations of applicable law, of organizations, individuals, or groups who prevent directly or indirectly, or seek to prevent directly or indirectly, compliance with the provisions of this Order.

3. Recommend to the Equal Employment Opportunity Commission or the Department of Justice that appropriate proceedings be instituted under Title VII of the Civil Rights Act of 1964.
4. Recommend to the Department of Justice that criminal proceedings be brought for the furnishing of false information to any contracting agency or to the Secretary of Labor as the case may be.
5. After consulting with the contracting agency, direct the contracting agency to cancel, terminate, suspend, or cause to be cancelled, terminated, or suspended, any contract, or any portion or portions thereof, for failure of the contractor or subcontractor to comply with equal employment opportunity provisions of the contract. Contracts may be cancelled, terminated, or suspended absolutely or continuance of contracts may be conditioned upon a program for future compliance approved by the Secretary of Labor.
6. Provide that any contracting agency shall refrain from entering into further contracts, or extensions or other modifications of existing contracts, with any noncomplying contractor, until such contractor has satisfied the Secretary of Labor that such contractor has established and will carry out personnel and employment policies in compliance with the provisions of this Order.

(b) Pursuant to rules and regulations prescribed by the Secretary of Labor, the Secretary shall make reasonable efforts, within a reasonable time limitation, to secure compliance with the contract provisions of this Order by methods of conference, conciliation, mediation, and persuasion before proceedings shall be instituted under subsection (a)(2) of this Section, or before a contract shall be cancelled or terminated in whole or in part under subsection (a)(5) of this Section.

[Sec. 209 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 210.** Whenever the Secretary of Labor makes a determination under Section 209, the Secretary shall promptly notify the appropriate agency. The agency shall take the action directed by the Secretary and shall report the results of the action it has taken to the Secretary of Labor within such time as the Secretary shall specify. If the contracting agency fails to take the action directed within thirty days, the Secretary may take the action directly.

[Sec. 210 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 211.** If the Secretary shall so direct, contracting agencies shall not enter into contracts with any bidder or prospective contractor unless the bidder or prospective contractor has satisfactorily complied with the provisions of this Order or submits a program for compliance acceptable to the Secretary of Labor.

[Sec. 211 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 212.** When a contract has been cancelled or terminated under Section 209(a)(5) or a contractor has been debarred from further Government contracts under Section 209(a)(6) of this Order, because of noncompliance with the contract provisions specified in Section 202 of this Order, the Secretary of Labor shall promptly notify the Comptroller General of the United States.

[Sec. 212 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

## **Subpart E - Certificates of Merit**

**SEC. 213.** The Secretary of Labor may provide for issuance of a United States Government Certificate of Merit to employers or labor unions, or other agencies which are or may hereafter be engaged in work under Government contracts, if the Secretary is satisfied that the personnel and employment practices of the employer, or that the personnel, training, apprenticeship, membership, grievance and representation, upgrading, and other practices and policies of the labor union or other agency conform to the purposes and provisions of this Order.

**SEC. 214.** Any Certificate of Merit may at any time be suspended or revoked by the Secretary of Labor if the holder thereof, in the judgment of the Secretary, has failed to comply with the provisions of this Order.

**SEC. 215.** The Secretary of Labor may provide for the exemption of any employer, labor union, or other agency from any reporting requirements imposed under or pursuant to this Order if such employer, labor union, or other agency has been awarded a Certificate of Merit which has not been suspended or revoked.

## **Part III - Nondiscrimination Provisions in Federally Assisted Construction Contracts**

**SEC. 301.** Each executive department and agency, which administers a program involving Federal financial assistance shall require as a condition for the approval of any grant, contract, loan, insurance, or guarantee thereunder, which may involve a construction contract, that the applicant for Federal assistance undertake and agree to incorporate, or cause to be incorporated, into all construction contracts paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to such grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the provisions prescribed for Government contracts by Section 202 of this Order or such modification thereof, preserving in substance the contractor's obligations thereunder, as may be approved by the Secretary of Labor, together with such additional provisions as the Secretary deems appropriate to establish and protect the interest of the United States in the enforcement of those obligations. Each such applicant shall also undertake and agree (1) to assist and cooperate actively with the Secretary of Labor in obtaining the compliance of contractors and subcontractors with those contract provisions and with the rules, regulations and relevant orders of the Secretary, (2) to obtain and to furnish to the Secretary of Labor such information as the Secretary may require for the supervision of such compliance, (3) to carry out sanctions and penalties for violation of such obligations imposed upon contractors and subcontractors by the Secretary of Labor pursuant to Part II, Subpart D, of this Order, and (4) to refrain from entering into any contract subject to this Order, or extension or other modification of such a contract with a contractor debarred from Government contracts under Part II, Subpart D, of this Order.

[Sec. 301 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

### **SEC. 302.**

- a. "Construction contract" as used in this Order means any contract for the construction, rehabilitation, alteration, conversion, extension, or repair of buildings, highways, or other improvements to real property.
- b. The provisions of Part II of this Order shall apply to such construction contracts, and for purposes of such application the administering department or agency shall be considered the contracting agency referred to therein.

- c. The term "applicant" as used in this Order means an applicant for Federal assistance or, as determined by agency regulation, other program participant, with respect to whom an application for any grant, contract, loan, insurance, or guarantee is not finally acted upon prior to the effective date of this Part, and it includes such an applicant after he/she becomes a recipient of such Federal assistance.

### **SEC. 303.**

- a. The Secretary of Labor shall be responsible for obtaining the compliance of such applicants with their undertakings under this Order. Each administering department and agency is directed to cooperate with the Secretary of Labor and to furnish the Secretary such information and assistance as the Secretary may require in the performance of the Secretary's functions under this Order.
- b. In the event an applicant fails and refuses to comply with the applicant's undertakings pursuant to this Order, the Secretary of Labor may, after consulting with the administering department or agency, take any or all of the following actions: (1) direct any administering department or agency to cancel, terminate, or suspend in whole or in part the agreement, contract or other arrangement with such applicant with respect to which the failure or refusal occurred; (2) direct any administering department or agency to refrain from extending any further assistance to the applicant under the program with respect to which the failure or refusal occurred until satisfactory assurance of future compliance has been received by the Secretary of Labor from such applicant; and (3) refer the case to the Department of Justice or the Equal Employment Opportunity Commission for appropriate law enforcement or other proceedings.
- c. In no case shall action be taken with respect to an applicant pursuant to clause (1) or (2) of subsection (b) without notice and opportunity for hearing.

[Sec. 303 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 304.** Any executive department or agency which imposes by rule, regulation, or order requirements of nondiscrimination in employment, other than requirements imposed pursuant to this Order, may delegate to the Secretary of Labor by agreement such responsibilities with respect to compliance standards, reports, and procedures as would tend to bring the administration of such requirements into conformity with the administration of requirements imposed under this Order: Provided, That actions to effect compliance by recipients of Federal financial assistance with requirements imposed pursuant to Title VI of the Civil Rights Act of 1964 shall be taken in conformity with the procedures and limitations prescribed in Section 602 thereof and the regulations of the administering department or agency issued thereunder.

### **Part IV - Miscellaneous**

**SEC. 401.** The Secretary of Labor may delegate to any officer, agency, or employee in the Executive branch of the Government, any function or duty of the Secretary under Parts II and III of this Order.

[Sec. 401 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

**SEC. 402.** The Secretary of Labor shall provide administrative support for the execution of the program known as the "Plans for Progress."

**SEC. 403.**

- a. Executive Orders Nos. 10590 (January 19, 1955), 10722 (August 5, 1957), 10925 (March 6, 1961), 11114 (June 22, 1963), and 11162 (July 28, 1964), are hereby superseded and the President's Committee on Equal Employment Opportunity established by Executive Order No. 10925 is hereby abolished. All records and property in the custody of the Committee shall be transferred to the Office of Personnel Management and the Secretary of Labor, as appropriate.
- b. Nothing in this Order shall be deemed to relieve any person of any obligation assumed or imposed under or pursuant to any Executive Order superseded by this Order. All rules, regulations, orders, instructions, designations, and other directives issued by the President's Committee on Equal Employment Opportunity and those issued by the heads of various departments or agencies under or pursuant to any of the Executive orders superseded by this Order, shall, to the extent that they are not inconsistent with this Order, remain in full force and effect unless and until revoked or superseded by appropriate authority. References in such directives to provisions of the superseded orders shall be deemed to be references to the comparable provisions of this Order.

[Sec. 403 amended by EO 12107 of Dec. 28, 1978, 44 FR 1055, 3 CFR, 1978 Comp., p, 264]

**SEC. 404.** The General Services Administration shall take appropriate action to revise the standard Government contract forms to accord with the provisions of this Order and of the rules and regulations of the Secretary of Labor.

**SEC. 405.** This Order shall become effective thirty days after the date of this Order.



## ADOT AZ EEO Workforce Availability Percentages

| Total Civilian Labor Force Highway<br>construction related Percentages |          |            |
|--|----------|------------|
| Location   | Female % | Minority % |
| ARIZONA  | 3.4%     | 50.9       |
| Apache County  | 4.2%     | 80.6%      |
| Cochise, Graham, Greenlee and<br>Santa Cruz Counties                   | 3.5%     | 55.6%      |
| Coconino County  | 5.9%     | 55.2%      |
| Gila County  | 3.2%     | 26.4%      |
| LaPaz and Yavapai counties   | 4.6%     | 19.8%      |
| Maricopa county  | 3.1%     | 58.1%      |
| Mohave county  | 6.3%     | 18.3%      |
| Navajo county  | 5.8%     | 58.8%      |
| Pima county  | 3.7%     | 57.9%      |
| Pinal county   | 6.7%     | 45.4%      |
| Yuma county  | 2.9%     | 68.3%      |
| Phoenix and Mesa MSA   | 3.3%     | 57.6%      |

**SECTION 01 20 01**  
**MEASUREMENT AND PAYMENT**

Measurement and payment for all pay items in the proposal shall be as specified in the applicable section of the Maricopa Association of Governments Uniform Standard specifications for Public Works Construction (MAG Specifications) latest edition, and supplements, and any applicable City specifications or Standards as specified in these Technical Specifications. In the event of a conflict between these Specifications and the requirements of the plans, detail drawings, or City Standard Details and the MAG Specifications, these Specifications shall prevail.

Payment of the contract items shall be compensation in full for furnishing all overhead, labor, material, tools, equipment, and appurtenances necessary to complete the work in a good, neat, and satisfactory manner as indicated on the plans, or as specified, with all necessary connections and appurtenances for the satisfactory use of and/or operation of said item. No additional payment will be made for work related to each item unless specifically noted or specified. Measurement will be in place for the completed work with no allowance for waste.

No payment will be made for any item in clean-up as set forth in Section 3.11. The cost of this work shall be included in the other items of work for which payment is provided.

Item No. 1: Shrubs, Groundcovers, & Accents (1 Gal.) - Contractor shall provide materials, labor and equipment to install Shrubs, Groundcovers, & Accents (1 Gal.) complete in place as specified and shown on the plans. Shrubs, Groundcovers, & Accents (1 Gal.) shall conform to MAG Standard Sections 430 and 795 and as noted on the plans and within these specifications.

Measure and payment will be made at the contract unit price bid per **each**.

Item No. 2: Shrubs, Groundcovers, & Accents (5 Gal.) - Contractor shall provide materials, labor and equipment to install Shrubs, Groundcovers, & Accents (5 Gal.) complete in place as specified and shown on the plans. Shrubs, Groundcovers, & Accents (5 Gal.) shall conform to MAG Standard Sections 430 and 795 and as noted on the plans and within these specifications.

Measure and payment will be made at the contract unit price bid per **each**.

Item No. 3: 36" Box Trees - Contractor shall provide materials, labor and equipment to install Trees (36" Box) complete in place as specified and shown on the plans. Trees (36" Box) shall conform to MAG Standard Sections 430 and 795 and as noted on the plans and within these specifications.

Measure and payment will be made at the contract unit price bid per **each**.

Item No. 4: 48" Box Trees - Contractor shall provide materials, labor and equipment to install Trees (48" Box) complete in place as specified and shown on the plans. Trees (48" Box) shall conform to MAG Standard Sections 430 and 795 and as noted on the plans and within these specifications.

Measure and payment will be made at the contract unit price bid per **each**.

Item No. 5: Ocotillo (6 ft / 6-8 cane) - Contractor shall provide materials, labor and equipment to install Ocotillo complete in place as specified and shown on the plans. Ocotillo shall conform to MAG Standard Sections 430 and 795 and as noted on the plans and within these specifications.

Measure and payment will be made at the contract unit price bid per **each**.

Item No. 6: Irrigation (PVC Drip) System - Contractor shall conform to the City of Tempe Public Works Department Standard Landscape and Irrigation Details and Specifications, and details noted on the plans.

Tempe Crosscut Canal: Phase II Shared-Use Path  
e 207112.00  
February 4, 2010

MEASUREMENT AND PAYMENT  
01 20 01 - 1  
100% Submittal

Contractor shall submit a working irrigation plan in accordance with the above requirements based on the irrigation schematics shown in the plans for review and approval. Once the working plan has been approved by the City Construction Manager, the Contractor shall furnish all labor, materials and equipment to install the irrigation system, complete including but not limited to all backflow preventers (per Tempe Standard Detail T-213) & enclosures, water meters (installation of service only per Tempe Standard Detail T-212, meter will be installed by City forces), trench backfill and pavement replacement within the street shall be per City of Tempe Detail T-450, taps, trenching, bedding, backfill, piping, fittings, valving, electronic controllers, concrete pads, conduit, wiring, drip emitters, quick couplers, gate valves, valve boxes, sleeves, and any other appurtenant work for a complete and operational system.

Prior to installation of new water services and meters, please contact the City of Tempe Development Services Department to complete requests for new water meter services and meters. Please reference the City of Tempe project number on the application. New water services shall be installed by the contractor and must be inspected by COT Water Utilities Department prior to backfilling. Please call the COT Water Utilities Department at (480) 350-2837 at least 48 hours in advance to schedule inspections.

Measurement and payment will be made at the contract unit price bid per **Lump Sum** for the Irrigation system installed complete and operational including all of the above equipment and any incidentals thereto.

Item No. 7: Duff and Field Stone from site - Contractor shall provide all materials, equipment, and labor to install Duff and Field Stone Mulch from site at Planting Areas complete in place as specified and shown on the plans. Contractor shall conform to design as noted on the plans and within these specifications.

Measurement and payment will be made at the contract unit price bid per **square foot**.

Item No. 8: Concrete enhancements-colors – Contractor shall provide all materials, equipment, and labor to include concrete colors for pavements and walls as specified and shown on the plans.

Measurement and payment will be made at the contract unit price bid per **square foot**

Item No. 9: Pre-emergent Weed Control – Contractor shall provide all materials, equipment, and labor to install Pre-emergent Weed Control Thermoplastic complete in place as specified and shown on the plans.

Measurement and payment will be made at the contract unit price bid per **square foot**.

Item No. 10: Fine Grading – Contractor shall provide all materials, equipment, and labor for fine grading of the project limits complete in place as specified and shown on the plans.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 11: SDG - Stabilized Decomposed Granite Pavement– Contractor shall provide all materials, equipment, and labor to install stabilized decomposed granite complete in place as specified and shown on the plans. Work shall include subgrade preparation, compaction, pre-emergent herbicide application, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **square foot**.

Item No. 12: Landscape Establishment – Contractor shall provide all materials, equipment, and labor to maintain existing and proposed plant materials within the project area as shown on the plans. Work shall include pruning, staking, weed control, irrigation, pest control, and any incidentals during the warranty period.

Measurement and payment will be made at the contract unit price bid per **Lump sum**.

Tempe Crosscut Canal: Phase II Shared-Use Path  
e 207112.00  
February 4, 2010

MEASUREMENT AND PAYMENT  
01 20 01 - 2  
100% Submittal

Item No. 13: Bench – Crosscut Canal Standard – Contractor shall provide all materials, equipment, and labor to install the Vendor supplied Bench as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals. Work shall be installed per the manufacturers recommendations.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 14: Bench - Gabion – Contractor shall provide all materials, equipment, and labor to install the Gabion Bench as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 15: Trash Receptacle – Contractor shall provide all materials, equipment, and labor to install the vendor supplied Trash Receptacle as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals. Work shall be installed per the manufacturers recommendations.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 16: Bike Rack – Contractor shall provide all materials, equipment, and labor to install the vendor supplied Bike Rack as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals. Work shall be installed per the manufacturers recommendations.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 17: Frisbee Golf Adjustments - Contractor shall provide all materials, equipment, and labor to relocate / replace any existing Frisbee Golf elements as shown on the plans. Work shall be coordinated with Tempe Parks staff.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 18: Monument Signage – Node – Contractor shall provide all materials, equipment, and labor to install the Wayfinding Signage – CMU Steel as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 19: Monument Signage – Project – Contractor shall provide all materials, equipment, and labor to install the Wayfinding Signage – CMU Steel as specified and shown on the plans. Work shall include subgrade preparation, compaction, concrete work, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 20: Steel Edge Header – 6"x 1/4" – Contractor shall provide all materials, equipment, and labor to install the Steel Header (6") as specified and shown on the plans. Work shall be installed per the manufacturer's recommendations.

Measurement and payment will be made at the contract unit price bid per **linear foot**.

Item No. 21: Tree Grate – Contractor shall provide all materials, equipment, and labor to install the vendor supplied Tree Grate as specified and shown on the plans. Work shall include subgrade preparation,

compaction, concrete work, and any incidentals. Work shall be installed per the manufacturer's recommendations.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 22: Selective Demolition – Existing site materials – Shall conform to the plans, to MAG Section 350, and to the Specifications. Demolition shall include removal of unsuitable materials noted on demolition plan, including, but not limited to: pipes, concrete debris, asphalt debris, dumped earth mounds, block, brick, rock, metal debris, vegetation, and trash.

Measurement and payment will be made at the contract unit price bid per **lump sum**.

Item No. 23: Selective Salvaging – Existing site materials – Shall conform to the plans and to the Specifications. Salvage shall include removal of unsuitable materials noted on demolition plan, including, but not limited to: vegetation, site furnishing, inert materials, and historic elements.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 24: Gabion Columns – Contractor shall provide all materials, equipment, and labor to install per plans for the Gabion Columns. Work shall include subgrade preparation, compaction, concrete work, inert materials, steel and metals work, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each** price bid.

Item No. 25: Sandblasting of pavements – Contractor shall provide all materials, equipment, and labor to satisfactorily sandblast all concrete as specified and shown on the plans. Separate payment will not be given for the varying degrees of sandblasting (light, medium or heavy).

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 26: Boulders – Contractor shall provide all materials, equipment, and labor to install landscape boulders as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Ton**.

Item No. 27: Item Deleted

Item No. 28: Item Deleted

Item No. 29: Item Deleted

Item No. 30: Installation of Art – Installation of Art features  
Artwork

Artwork shall be fabricated and installed by Artist Subcontractor CAID Industries Inc. CAID shall design and detail bridge railings. All loading and Material Specifications for the design of the railing and connections to the bridge are shown on the plans. Any deviations from the plans shall be approved by the Engineer. Signed and sealed calculations by an Arizona Registered Professional Engineer and shop drawings for the railing and connections to the bridge shall be submitted according to these Specifications to the Engineer for approval before fabrication of the work.

Contractor shall coordinate artwork installation with Artist Mary Lucking and CAID Industries. Mary Lucking and CAID can be contacted at (520) 294-3126 and (520) 792-2063 respectively. Before construction begins, the Contractor will coordinate an Art Installation Meeting with the artist and artist subcontractor. The purpose of the meeting shall be to review and coordinate construction schedules,

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outlined procedural issues and define roles and responsibilities and other issues as deemed necessary. Notice for the meeting shall be provided at least four weeks in advance. The Artist is responsible for all field and as-built measurements verifications, unless otherwise noted, prior to fabrication and installation of the artwork. It is the Artist's responsibility to remove debris, packing materials, cuttings and any such other debris that accumulated from the artwork's installation at the end of the installation activities. Contractor is responsible for any damage to the art caused by Contractor or his Subcontractor activities.

This is a non-pay item.  
No separate payment will be made for the Work in this section.

Item No. 31: Excavation - Contractor shall provide all materials, equipment, and labor to excavate, the site, for placement and compaction of all earthwork and any other appurtenant work as specified and shown on the plans. Excavation shall conform to the plans, to the Specifications, and to MAG Sections 201, 205, 206, 210, 211, 220, 225, & 230.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 32: Borrow - Contractor shall provide all materials, equipment, and labor to place borrow material, for placement and compaction of all earthwork and any other appurtenant work as specified and shown on the plans. Borrow shall conform to the plans, to the Specifications, and to MAG Sections 201, 205, 206, 210, 211, 220, 225, & 230.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 33: Pavement Removal - Asphalt - Contractor shall provide all materials, equipment, and labor to remove existing asphalt pavement as specified and shown on the plans. Sawcutting is considered incidental to this work and will not be paid for separately. The removal of asphalt concrete pavement shall conform to the plans, to the Specifications, and to Section 350 of the MAG Standard Specifications.

Measurement and payment will be made at the contract unit price bid per **Square Yard**.

Item No. 34: Remove Concrete Sidewalk - Contractor shall provide all materials, equipment, and labor to remove existing concrete pavement as specified and shown on the plans. Sawcutting is considered incidental to this work and will not be paid for separately. The removal of concrete pavement shall conform to the plans, to the Specifications, and to Section 350 of the MAG Standard Specifications.

Measurement and payment will be made at the contract unit price bid per **Square Foot**.

Item No. 35: Remove Existing Stone Wall - Contractor shall provide all materials, equipment, and labor to remove existing site wall as specified and shown on the plans. Sawcutting is considered incidental to this work and will not be paid for separately. The removal of wall shall conform to the plans and to the Specifications.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 36: 18" RGRCP, Class III - Contractor shall provide all materials, equipment, and labor to install RGRCP, Class III as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 37: 15" RGRCP, Class III – Contractor shall provide all materials, equipment, and labor to install RGRCP, Class III as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 38: 18" CMP – Contractor shall provide all materials, equipment, and labor to install 18" CMP as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 39: Outlet Structure – Contractor shall provide all materials, equipment, and labor to install the Outlet Structure as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 40: Reset frame and cover for Manhole – Contractor shall provide all materials, equipment, and labor to reset the frame and cover for manholes, as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**

Item No. 41: Catch Basin, MAG 535 type F – Contractor shall provide all materials, equipment, and labor to install catch basin as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**

Item No. 42: Headwall, MAG 501 U type for 18" pipe – Contractor shall provide all materials, equipment, and labor to install Headwall type U as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**

Item No. 43: Headwall, MAG 501 straight type for 18" pipe – Contractor shall provide all materials, equipment, and labor to install Headwall type straight as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **each**

Item No. 44: Item Deleted

Item No. 45: Subgrade Preparation – Contractor shall provide all materials, equipment, and labor to satisfactorily prepare the path for placement of the concrete path surface course. Both the existing ground surface and hauled borrow material shall be compacted to 95% in preparation of the path construction. Subgrade Preparation shall conform to Section 301 of the MAG Standard Specifications.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 46: Class A Concrete (6") Thick – Contractor shall provide all materials, equipment, and labor to satisfactorily place concrete path as specified and shown on the plans. Class A Concrete

shall conform to Section 340 of the MAG Standard Specifications. Work shall include subgrade preparation, compaction, delivery, labor, pre-emergent herbicide application, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Square Foot**.

Item No. 47: Porous Concrete Pavement (6") Thick – Contractor shall provide all materials, equipment, and labor to install Porous Concrete as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, pre-emergent application and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Square Foot**

Item No. 48: Retaining Wall ADOT B-18.10 – Contractor shall provide all materials, equipment, and labor to satisfactorily construct the retaining walls as specified and shown on the plans. Retaining walls shall conform to ADOT Standard Detail B-18.10.

Measurement and payment will be made at the contract unit price bid per **Square Foot**.

Item No. 49: Safety Rail – MAG 145 modified – Contractor shall provide all materials, equipment, and labor to satisfactorily construct the safety rail as specified and shown on the plans. Safety Rail shall conform to MAG Standard Detail 145 (height = 4'-8") and per the details and plans for the enhancement of the standard.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 50: Modified Curb per Plan – Contractor shall provide all materials, equipment, and labor to satisfactorily construct the modified curb as specified and shown on the plans.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 51: Premanufactured Steel Beam Bridge with Wood Decking

Contractor shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish and install a premanufactured steel beam bridge with wood decking as shown on the bridge plans. All loading for the design of the bridge and Material Specifications of the steel beams are shown on the plans. Any deviations from the plans shall be approved by the Engineer. Signed and sealed calculations by an Arizona Registered Professional Engineer and shop drawings for the premanufactured bridge shall be submitted according to these Specifications to the Engineer for approval before fabrication of the work.

Timber shall comply with ANSI/AITC A190.1, "Structural glued laminated timber" and applicable lumber association standards cited therein for grades required to achieve glulam requirements for design values, appearance, fabrication limitations and species.

Structural glued laminated timber shall consist of the following:

Lumber Species: Douglas Fir/Larch (no mixed species allowed) with moisture content average of 12% and 15% maximum.

Adhesive: ANSI/AITC A190.1, wet-use type.

End sealer: manufacturer's standard, transparent, colorless wood sealer, effective in retarding transmission of moisture at cross-grain cuts.

Penetrating sealer: Manufacturer's standard, translucent, penetrating wood sealer.

Contractor shall provide steel bolts (ASTM A307), lag bolts, nails and other standard fasteners as required for installation of the deck and connections to the supporting steel beams.

Measurement and payment will be made at the contract **Lump Sum** price bid.



Item No. 52, 60, 66: Concrete (abutments) 3500

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 601 and 1006

Measurement and payment will be made at the contract unit price bid per **cubic yard**.

Item No. 53, 61, 67: Steel Reinforcement

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 605 and 1003.

Measurement and payment will be made at the contract unit price bid per **pound**.

Item No. 54, 68 : 36" Drilled Shaft Foundations

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 609, 1003 and 1006.

Measurement and payment will be made at the contract unit price bid per **linear foot**.

Item No. 55, 63, 69: Structural Excavation

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 203-5.

Measurement and payment will be made at the contract unit price bid per **cubic yard**.

Item No. 56, 64, 70: Structure Backfill

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 203-5.

Measurement and payment will be made at the contract unit price bid per **cubic yard**.

Item No. 57: Approach Slab

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 601.

Measurement and payment will be made at the contract unit price bid per **square foot**.

Item No. 58: Precast Concrete Slab

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 601.

Measurement and payment will be made at the contract unit price bid per **linear foot**.

Item No. 59 Concrete (deck) 4500

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 601 and 1006.

Measurement and payment will be made at the contract unit price bid per **cubic yard**.

Item No. 62: 30" Drilled Shaft Foundations

Comply with ADOT Standard Specifications for Road and Bridge Construction Section 609, 1003 and 1006.

Measurement and payment will be made at the contract unit price bid per **linear foot**.

Item No. 65: Premanufactured Steel Truss Bridge with Steel Grating Deck

Contractor shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish and install a premanufactured steel truss bridge with a steel grating deck as shown on the plans.

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All loading for the design of the bridge and Material Specifications for the steel truss are shown on the plans. Any deviations from the plans shall be approved by the Engineer.  
Signed and sealed calculations by an Arizona Registered Professional Engineer and shop drawings for the premanufactured bridge shall be submitted according to these Specifications to the Engineer for approval before fabrication of the work.

Contractor shall coordinate truss and grating deck geometrics and shall take field measurements prior to fabrication of the steel grating to ensure proper fitting of the work.

Grating shall meet ADA compliance and shall comply with applicable provisions and recommendations of NAAMM Metal Bar Grating Manual designated ANSI/NAAMM MBG 532 and shall conform to ASTM A36 for hot rolled structural steel bars or approved equal.

Measurement and payment will be made at the contract **Lump Sum** price bid.

Item No. 71: Removal of Channel Lining

Comply with SRP Standard Guidelines and Specifications for Bridge Crossings of SRP canals.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**.

Item No. 72: Reinforced Channel Lining

Comply with SRP Standard Guidelines and Specifications for Bridge Crossings of SRP canals.

Measurement and payment will be made at the contract unit price bid per **square foot**.

Item No. 73: Solar Powered Light System – Contractor shall provide all materials, equipment and labor to install Solar Powered Light System complete in place as specified and shown on the plans. Work shall include Photovoltaic (PV) Modules, Solar Light Controllers, Light Fittings, LED lamps, Batteries, Battery Enclosures, Mounting and Support Hardware, Wiring and Fixture Mast Arm, completely installed and operational as necessary for a complete system.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 74: Pole and Concrete Foundation for Solar Powered Light System – Contractor shall provide all materials, equipment and labor to install weathering steel pole and concrete foundation complete in place as specified and shown on the plans and operational as necessary for a complete system.

Contractor is responsible for providing load calculations and coordinating all work with the lighting and pole manufacturer to provide a complete lighting assembly. All load calculations for pole and foundation are to be provided by pole manufacturer or Arizona Registered Structural Engineer, and are to be included in contractor's bid item payment. No additional payments will be made for these services.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 75: Mobilization / Demobilization – The work under this section shall consist of preparatory work and operations, including, but not limited to, the movement of personnel, equipment, supplies, and incidentals to the project site; the establishment of all offices, buildings, and other facilities necessary for work on the project; and for all other work and operations that must be performed and costs incurred prior to beginning work on the project site. Mobilization/Demobilization shall conform to Section 109 of the MCDOT Supplement to MAG Standard Specifications.

Measurement and payment will be made at the contract **Lump Sum** price bid.

Item 76 - Construction Surveying and Layout – The Contractor shall furnish all materials, personnel, and equipment necessary to perform all surveying, staking, laying out of control lines and verifications of the

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e 207112.00  
February 4, 2010

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accuracy of all existing control points which are re-delineated in the Contract Documents. The work shall be done under the direction of a Registered Land Surveyor licensed to practice in the State of Arizona. Construction Surveying and Layout shall conform to Section 105.8 of the MAG Standard Specifications.

Measurement and payment will be made at the contract **Lump Sum** price bid.

Item No. 77: Hallman Park Path segment (Sta. 49+50 to 62+15) - Contractor shall provide all labor, materials, equipment, and incidentals as shown, specified and required to furnish and install the path design complete between station 49+50 to station 62+15.

Contractor shall include with this item Construction Survey and Layout, area limits clearing and grubbing, excavation and soil import, sub-grade preparation, selective demolition, selective salvage of inert material duff, concrete pavement paths, connection to existing paths, and selective removal of vegetation.

Measurement and payment will be made at the contract unit price bid per **Lump Sum**

Item No. 78: Traffic Control - The work under this item shall consist of installation and maintenance of traffic control devices in accordance with standard practices of the Manual on Uniform Traffic Control Devices (MUTCD). Item shall include all equipment, labor materials and supplies to complete the work. Contractor must submit and receive approved traffic control plans prior to construction.

Measurement and payment will be made at the contract **Lump Sum** price bid.

Item No. 79: AZPDES Permit (SWPPP) - The work under this item shall consist of preparing all required documents and certifications, performing inspections, and furnishing all materials, labor, and equipment necessary to comply with all requirements of the Arizona Pollutant Discharge Elimination System (AZPDES) General Permit for Storm Water Discharges for Construction Activities. The work shall also include providing, installing, maintaining, removing and disposing of erosion and sediment control measures such as gravel filter berms, dikes, catch basin inlet protection, end-of-pipe filtering devices, silt fences, dams, sediment traps and basins, netting, straw bale barriers, slope drains, and other erosion control devices or methods.

Measurement and payment will be made at the contract **Lump Sum** price bid.

Item No. 80 Sign & Post (ADA Path) - Contractor shall provide all materials, equipment, and labor to install Sign & Post as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, concrete footings and any incidentals. Sign element shall be provided by Tempe during construction.

Measurement and payment will be made at the contract unit price bid per **each**.

Item No. 81: Dumped Rip Rap – Contractor shall provide all materials, equipment, and labor to install rip rap as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Square Foot**.

Item No. 82: Grouted Rip Rap – Contractor shall provide all materials, equipment, and labor to install grouted rip rap as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Square Foot**

Item No. 83 Fixed Hand Rail - Contractor shall provide all materials, equipment, and labor to install Fixed Hand Rails as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, concrete footings, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 84 Removable Hand Rail - Contractor shall provide all materials, equipment, and labor to install Removable Hand Rails as specified and shown on the plans. Work shall include subgrade preparation, compaction, delivery, labor, concrete footings, and any incidentals.

Measurement and payment will be made at the contract unit price bid per **Linear Foot**.

Item No. 85 Truncated Domes (Tempe Std. Det. T-329) – Contractor shall provide all materials, equipment, and labor to install truncated domes/Detectable Warning at Marigold Lane. This work shall conform to Tempe Standard Detail T-329, and as noted on the plans and within these specifications.

Measurement and payment will be made at the contract unit price bid per **Square Foot**.

**END OF SECTION 01 20 01**

## TEMPE CROSSCUT CANAL: PHASE II

### SHARED-USE PATH

## PROFESSIONAL ENGINEERS SEALS:

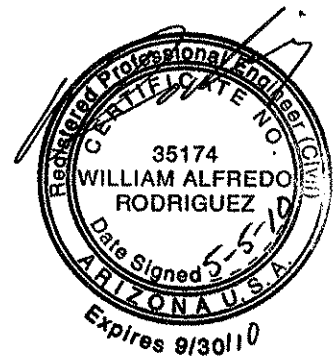
Addendum No. 1 and related bid documents represent the efforts of the following firms:

- (1) e group
- (2) Ritoch Powell & Associates
- (3) TY Lin
- (4) Wright Engineering

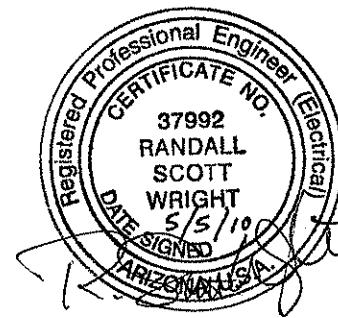
A representative of each firm has affixed his/her professional seal below, which attests that those portions of these addendum materials that relates to the modifications or changes of the bid plans were prepared under his/her direction.



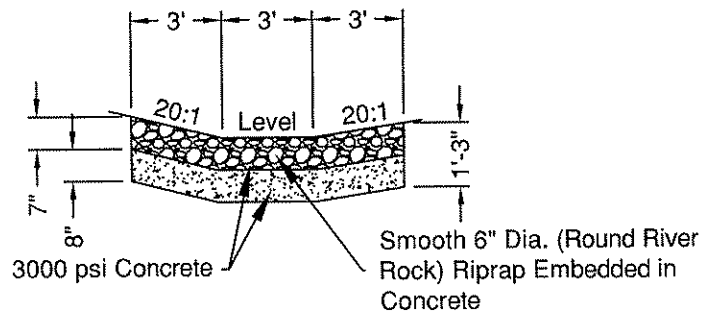
EXPIRES: 9/30/12



EXPIRES 6.30.12

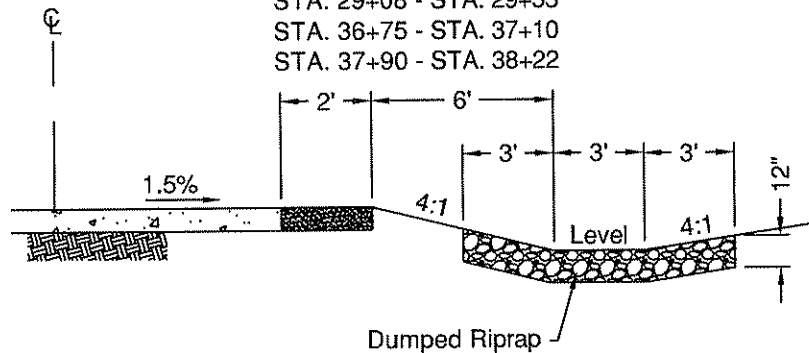


Expires 9-30-11



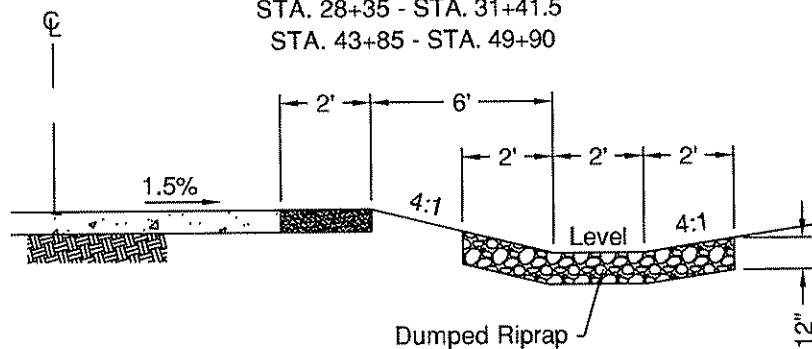
### TRUCK CROSSING TYPICAL SECTION

STA. 29+08 - STA. 29+53  
STA. 36+75 - STA. 37+10  
STA. 37+90 - STA. 38+22



### DUMPED RIP RAP

STA. 28+35 - STA. 31+41.5  
STA. 43+85 - STA. 49+90



### DUMPED RIP RAP

STA. 33+18 - STA. 43+85

## TRUCK CROSSING & DUMPED RIP RAP

Scale: Not to Scale

Crosscut Canal Shared Use Path  
Tempe, Arizona

Date: 05/05/10

Preparing Firm: **RITTOCH-POWELL & ASSOCIATES, INC.**  
3838 N. Central Ave., Suite 1250  
Phoenix, AZ 85012  
Ph: 602-263-1177  
Fax: 602-277-6286

**CSK 001**

Designed By: TEB  
Drawn By: TEB  
Approved By: JAN

RPA Project: 26025

## RAIL TABLE

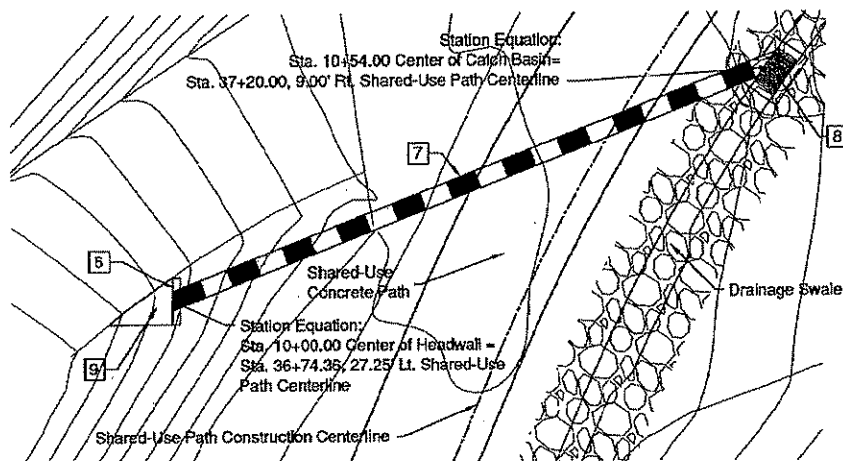
|     | BEG. STA. TO END STA. | SIDE      | LENGTH  |
|-----|-----------------------|-----------|---------|
| *   | 10+70.98 TO 10+98.65  | LT.       | 27.67'  |
| *   | 10+93.97 TO 11+11.23  | RT.       | 17.26'  |
| *   | 19+07.34 TO 19+41.65  | RT.       | 86.20'  |
| *   | 11+30.22 TO 11+87.06  | LT.       | 56.84'  |
| *   | 11+42.81 TO 12+00.71  | RT.       | 57.90'  |
| *   | 27+27.36 TO 27+54.27  | RT.       | 26.91'  |
| *   | 27+98.97 TO 28+05.96  | LT.       | 6.99'   |
| *   | 38+00.00 TO 44+51.00  | LT.       | 651.00' |
| **  | 44+54.00 TO 44+86.00  | RT. & LT. | 64'     |
| **  | 44+89.00 TO 45+21.00  | RT. & LT. | 64'     |
| **  | 45+24.00 TO 45+56.00  | RT. & LT. | 64'     |
| **  | 45+64.00 TO 45+96.00  | RT. & LT. | 64'     |
| **  | 46+04.00 TO 46+36.00  | RT.       | 32'     |
| *** | 46+04.00 TO 46+36.00  | LT.       | 32'     |
| **  | 46+44.00 TO 46+76.00  | RT.       | 32'     |
| *** | 46+44.00 TO 46+76.00  | LT.       | 32'     |
| **  | 46+84.00 TO 47+16.00  | RT. & LT. | 64'     |
| **  | 47+19.00 TO 47+51.00  | RT. & LT. | 64'     |
| **  | 47+54.00 TO 47+86.00  | RT. & LT. | 64'     |
| *   | NORTH BRIDGE          | EAST BANK | 118.93' |
| *   | NORTH BRIDGE          | WEST BANK | 19.30'  |

- \* Permanent Safety Rail
- \*\* Permanent Hand Rail
- \*\*\* Removable Hand Rail

## SAFETY RAIL & HAND RAIL TABLE

Scale: Not to Scale

|  |  |   |
|--|--|---|
| <b>Crosscut Canal Shared Use Path</b><br>Tempe, Arizona<br><br><b>Date:</b> 05/05/10   |  | <b>CSK 002</b>  |
|  |  | Designed By: TEB<br>Drawn By: TEB<br>Approved By: JAN<br><br>RPA Project: 26025 |
| <b>Preparing Firm:</b> RITTOCH-POWELL & ASSOCIATES, INC.<br>3838 N. Central Ave., Suite 1250<br>Phoenix, AZ 85012<br>Ph: 602-263-1177<br>Fax: 602-277-6286 |  |   |

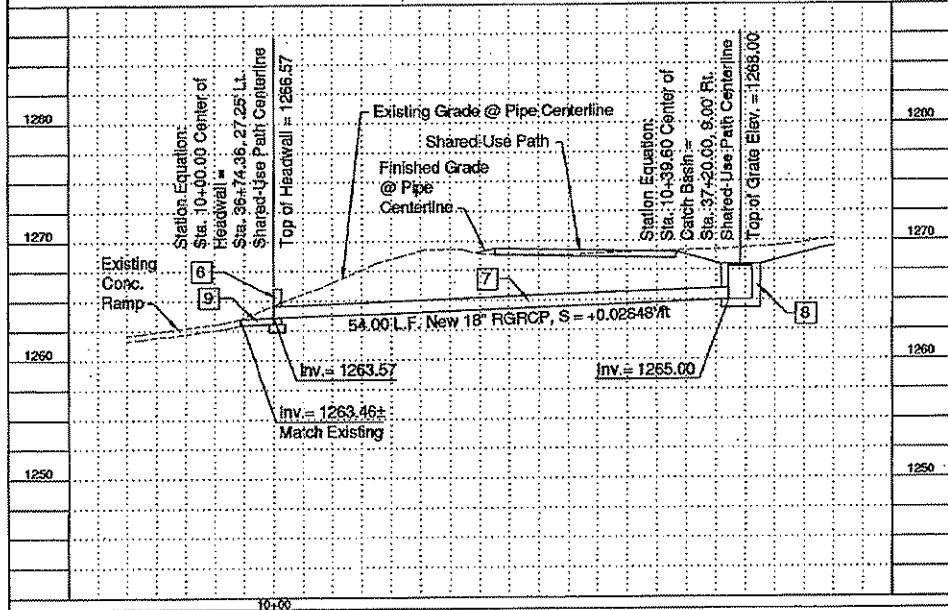


- 6 Construct Headwall Per MAG Std. Det. 501-1 "Straight Type".
- 7 Install 54.0 L.F. New 18" R.G.R.C.P..
- 8 Construct Catch Basin Per MAG Std. Det. 535, Type "F".
- 9 Construct 11.00 S.F. 6" Thick Concrete Apron.

See Sheet 19 for Shared-Use Path



SCALE:  
Horiz. : 1" = 10'  
Vert. : 1" = 5'



## DRAINAGE PIPE

Scale: Not to Scale

Crosscut Canal Shared Use Path  
Tempe, Arizona

Date: 05/05/10

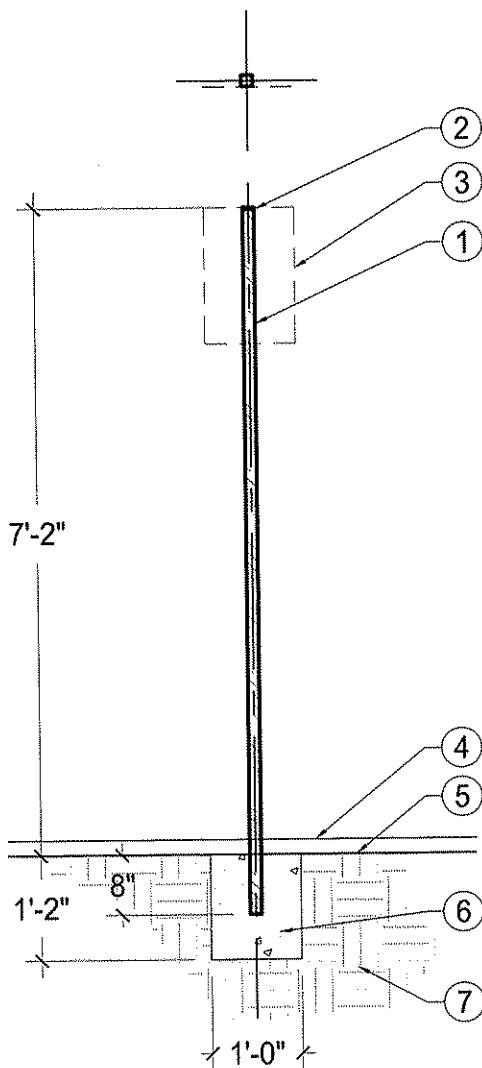
Preparing Firm: **RITTOCH-POWELL & ASSOCIATES, INC.**  
3838 N. Central Ave., Suite 1250  
Phoenix, AZ 85012  
Ph: 602-263-1177  
Fax: 602-277-6286

**CSK 003**

Designed By: TEB  
Drawn By: TEB  
Approved By: JAN

RPA Project: 26025

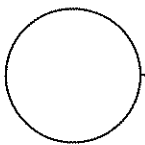




- ① 1.5" SQ. TUBE STEEL POST, OXIDIZED FINISH (RUST). 0.188" WALL THK.
- ② STEEL PLATE, 1.5" X 1.5" X .25" THK., WELD CAP TO POST TOP. GRIND ALL WELDS SMOOTH, OXIDIZED FINISH (RUST).
- ③ FUTURE ADA SIGN. PROVIDED BY CITY OF TEMPE.
- ④ LANDSCAPE DUFF (DG) LAYER, 2" MAX.
- ⑤ FINISH GRADE.
- ⑥ CONCRETE FOOTING, 2500 PSI.
- ⑦ COMPACTED SUB-GRADE, 95% MIN.

NOTE:

1. INSTALL SIGN PLUMB TO HORIZON.
2. COORDINATE WITH CITY OF TEMPE FOR SIGN INSTALLATION.
3. REFER TO PLANS FOR SIGN LOCATION.
4. POST SHALL CONFORM TO THE MUTCD AND STANDARD HIGHWAY SIGNS AND MARKINGS REQUIREMENTS.




## ADA SIGN POST

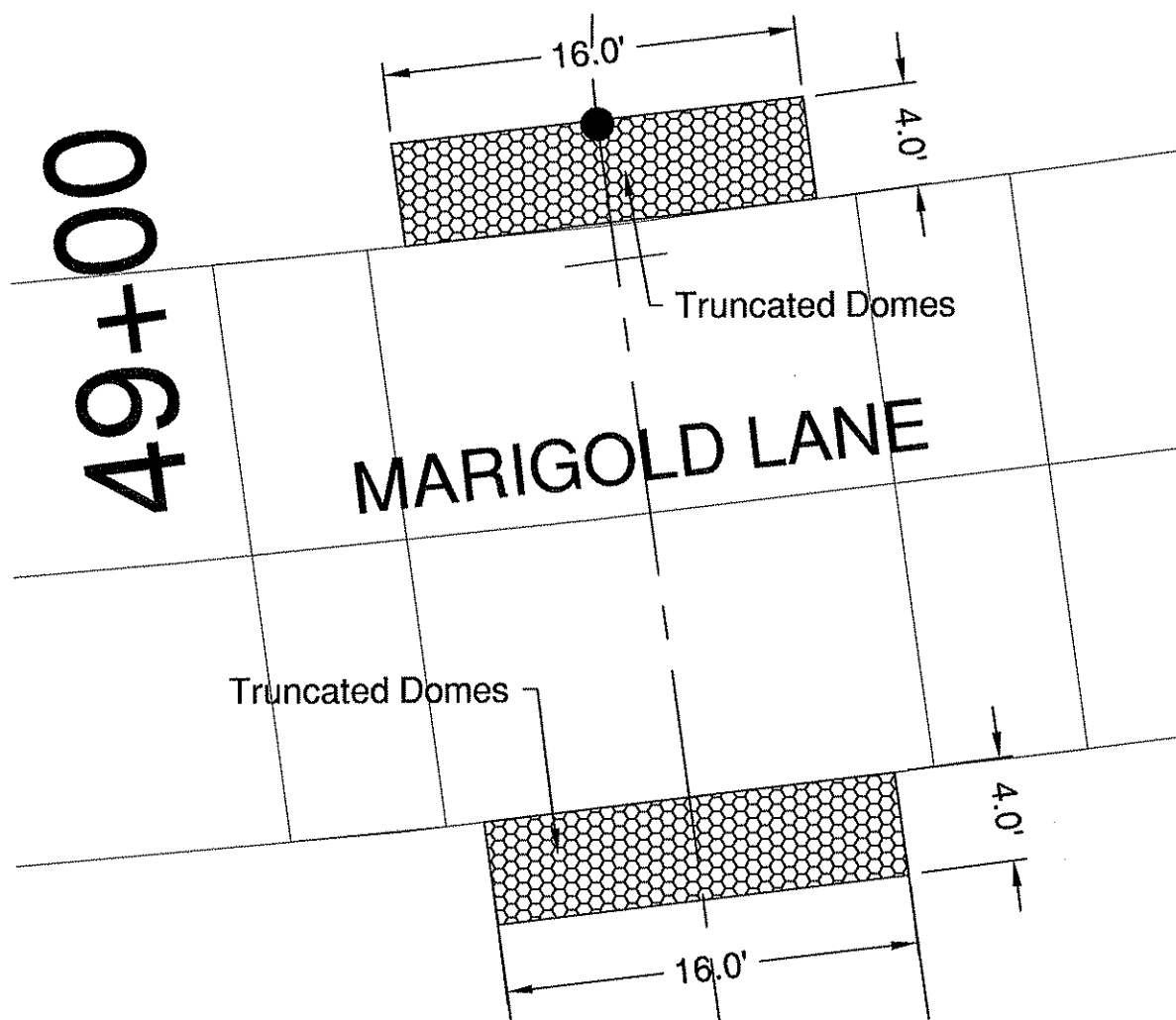
SCALE: 1/2"=1'-0"

### ADA Signage Detail

SCALE: NOTED

|  |  |                           |                        |                    |
|--|--|---------------------------|------------------------|--------------------|
| <br><b>e group®</b> | <b>Crosscut Canal<br/>Shared Use Path</b><br><br>Tempe, AZ | Designed by : <u>JEH</u>  | RFI # : <u>-</u>       | <b>LSK 001</b>     |
|  |  | Drawn by : <u>JEH</u>     | COR # : <u>-</u>       |                    |
|  |  | Approved by : <u>JEH</u>  |                        |                    |
|  |  | e # 2070112.0             | DERIVED FROM SHEET # - |                    |
| 7337 E. Doubletree Ranch Road C-165  |  | SCOTTSDALE, ARIZONA 85258 | 602-462-9000           | DATE : MAY 3, 2010 |

[G:\e group Standard Documents\DRAWING STANDARDS\LSK.dwg]



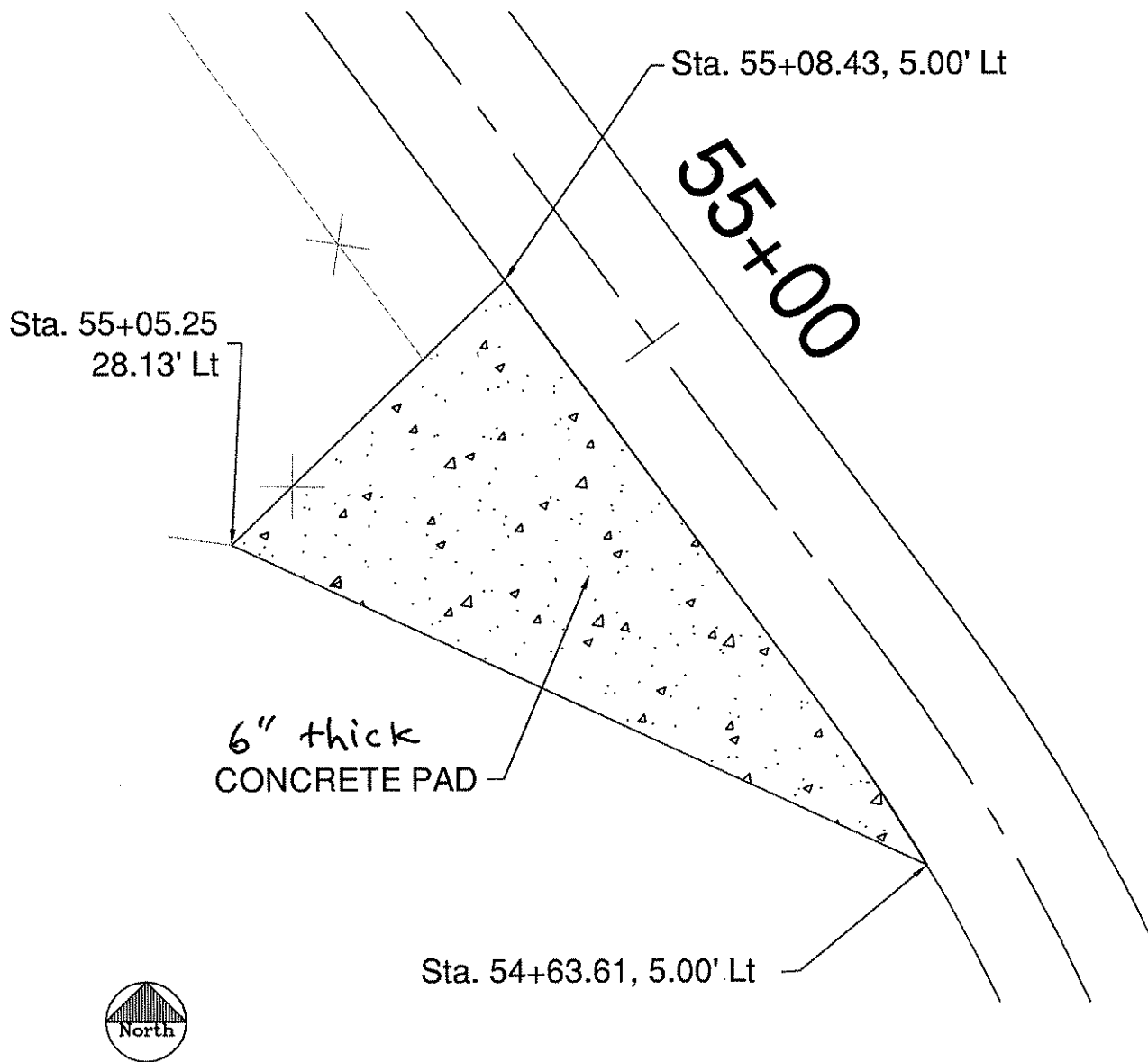
#### Truncated Dome Pavers.

Surface shall consist of Raised Truncated Domes with a diameter of nominal 0.9" (23mm), a height of nominal 2.35" (5mm) and a center-to-center spacing of nominal 2.35" (60mm) and shall contrast visually with adjoining surfaces, either light on dark or dark on light. (ADAAG 4.29.2)

## TRUNCATED DOMES AT MARIGOLD LANE

Scale: Not to Scale

|   |  |
|---|--|
| <p><b>Crosscut Canal Shared Use Path</b><br/>Tempe, Arizona</p> <p><b>Date:</b> 05/05/10</p>  | <p><b>CSK 004</b></p>  |
| <p><b>Preparing Firm:</b> RITTOCH-POWELL &amp; ASSOCIATES, INC.<br/>3838 N. Central Ave., Suite 1250<br/>Phoenix, AZ 85012<br/>Ph: 602-263-1177<br/>Fax: 602-277-6286</p> | <p>Designed By: TEB<br/>Drawn By: TEB<br/>Approved By: JAN</p> <p>RPA Project: 26025</p> |



## CONCRETE PAD FOR SRP YARD

Scale: Not to Scale

Crosscut Canal Shared Use Path  
Tempe, Arizona

Date: 05/05/10

Preparing Firm: **RITTOCH-POWELL & ASSOCIATES, INC.**  
3838 N. Central Ave., Suite 1250  
Phoenix, AZ 85012  
Ph: 602-263-1177  
Fax: 602-277-6286

**CSK 005**

Designed By: TEB  
Drawn By: TEB  
Approved By: JAN

RPA Project: 26025

90"x32" SOLAR POWER MODULE MOUNTED TO TOP OF POLE. MODULE SHALL CONSIST OF CRYSTALLINE SILICON SOLAR CELLS FRAMED IN AN ALL ALUMINUM STRUCTURE AND SEALED BEHIND UV STABILIZED TEMPERED GLASS. MODULE PER SPECIFICATIONS.

SOLAR PANEL WEIGHT APPROXIMATELY 250 POUNDS WITH AN EPA OF 20 SQ. FT.

SOLAR PANEL SHALL BE INSTALLED ORIENTED IN A SOUTH FACING DIRECTION. CONTRACTOR TO ENSURE THAT SOLAR PANEL IS NOT OBSTRUCTED BY TREES OR OTHER OBJECTS.

75W 5 QUAD LED SHOEBOX LIGHT FIXTURE WITH UV STABILIZED BRONZE POWDER COAT FINISH AND DARK SKY CERTIFIED LED'S SHALL BE GRAY. MAXIMUM AMBIENT TEMPERATURE GREATER THAN 5000K. PER SPECIFICATIONS.

2" X 5' STEEL MAST ARM, PRIME AND PAINT BRONZE TO MATCH LIGHT FIXTURE. FINISH SHALL BE POLYESTER POWDER COAT WITH MINIMUM 2.5 MILS THICKNESS.

VENTED ALL ALUMINUM NEMA 3R BATTERY ENCLOSURE CAPABLE OF HOLDING 2 LARGE-SIZE 100AH GEL CELL TYPE BATTERIES OR 4 SMALL-SIZE 55AH BATTERIES. BATTERIES AND CHARGER PER SPECIFICATIONS.

SYSTEM SHALL HAVE DISCONNECTING MEANS IN ACCORDANCE WITH NEC 690.15 AND 690.33.

ENCLOSURE AND BATTERY WEIGHT APPROXIMATELY 200 POUNDS.

SQUARE TUBE WEATHERING STEEL FOUNDATION MOUNTED POLE, WITH NATURAL RUST APPEARANCE.

POLE TO BE DESIGNED TO SUPPORT LIGHT FIXTURE, MAST ARM, SOLAR MODULE, BATTERIES AND ENCLOSURE WITH A COMBINED MINIMUM EPA OF 23 SQ. FT. AND APPROXIMATE WEIGHT OF 500 POUNDS IN A 100 MPH WIND ZONE.

METAL BASE COVER

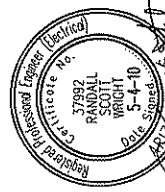
3000 PSI CONCRETE ANCHOR BOLT SYSTEM AND TEMPLATE TO BE SUBMITTED BY POLE MANUFACTURER

FOUNDATION DEPTH AND REBAR SIZE AND QUANTITY TO BE PROVIDED BY AN ARIZONA REGISTERED STRUCTURAL ENGINEER. CONTRACTOR TO PROVIDE CALCULATIONS WITH SUBMITTALS.

RUN (1) #4 AVG SOLID COPPER BOND FROM BATTERY ENCLOSURE GROUNDING BUS THROUGH FOUNDATION TO A 25'-0" COIL BELOW THE CONCRETE FOUNDATION OR CONNECT TO A PLATE GROUNDING ELECTRODE (2009 NEC 690.47(D))

SOLAR POWER LIGHT DETAIL

SCALE: 1" = 30'



**WRIGHT ENGINEERING CORPORATION**  
ELECTRICAL ENGINEERING AND DESIGN  
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225  
PHONE 480-497-5829 • FAX 480-497-5807  
www.wrightengr.com

VEC JOB# 07204  
Expires 9-30-11

DEPARTMENT OF PUBLIC WORKS

CITY OF TEMPE  
DIVISION OF ENGINEERING

P.O. BOX 5002 TEMPE, ARIZONA 85280  
DATE 2/4/10

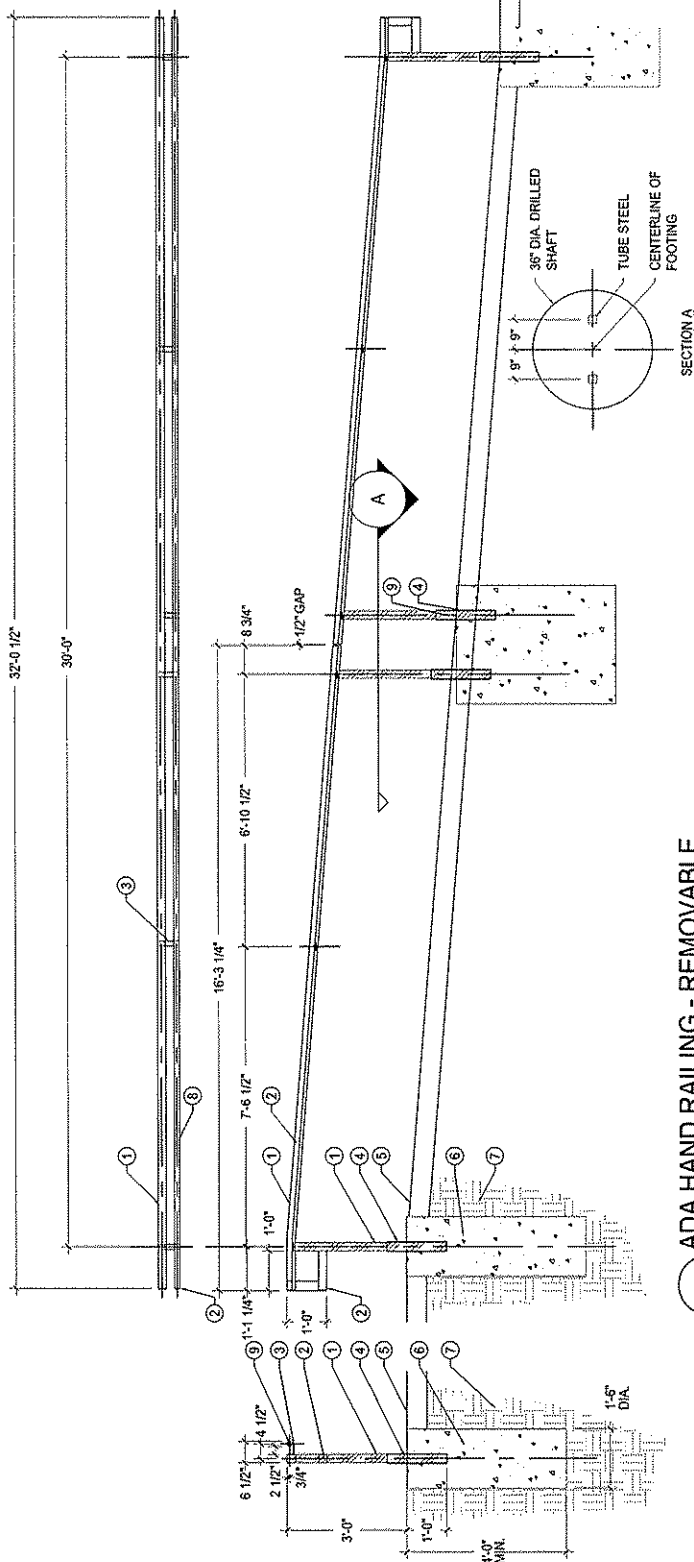
PROJECT NO.  
6002441

DESCRIPTION  
*Crosscut Canal  
Phase II  
Shared Use Path*

ESK001

SURVEYED: KHC  
DESIGNED: KHC  
DRAWN: KHC  
CHECKED: RSW  
SCALE: AS NOTED

- ① 1.5" SQ. TUBE STEEL - RAILING, OXIDIZED FINISH (RUST), 0.188" WALL THK.
  - ② STEEL PLATE, 1.5" X 1.5" X .25" THK., WELD CAP TO POST TOP. GRIND ALL WELDS SMOOTH, OXIDIZED FINISH (RUST).
  - ③ STEEL PLATE BRACKET, .25" THK. WELD TO RAILING AND HAND RAIL OXIDIZED FINISH (RUST).
  - ④ POST SLEEVE - REMOVABLE BRACKET. SEE DETAIL. OXIDIZED FINISH (RUST).
  - ⑤ FINISH GRADE.
  - ⑥ CONCRETE FOOTING, 18" DIA., 2500 PSI.
  - ⑦ COMPACTED SUB-GRADE, 95% MIN.
  - ⑧ HAND RAIL, 1.5" DIA. TUBE STEEL, 0.188" THK. WELD TO STEEL PLATE BRACKET, OXIDIZED FINISH (RUST).
  - ⑨ STEEL COTTER PIN, ALIGNMENT BOLT WITH HOLE FOR SRP LOCK.
- NOTE:
1. INSTALL POSTS PLUMB VERTICAL & CENTERED IN FOOTING.
  2. GRIND ALL WELDS SMOOTH AT SHARP EDGES.
  3. REFER TO PLANS FOR REMOVABLE HAND RAILING LOCATIONS.
  4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW.
  5. RAILINGS SHALL CONFORM TO ADA DESIGN GUIDELINES.
  6. RAILING SECTIONS SHALL HAVE A MAXIMUM WEIGHT OF 120 LBS PER SRP REQUIREMENTS.
  7. COTTER PIN SHALL BE COORDINATED WITH SRP TO ACCEPT SRP PROVIDED LOCK.




ADA HAND RAILING - REMOVABLE

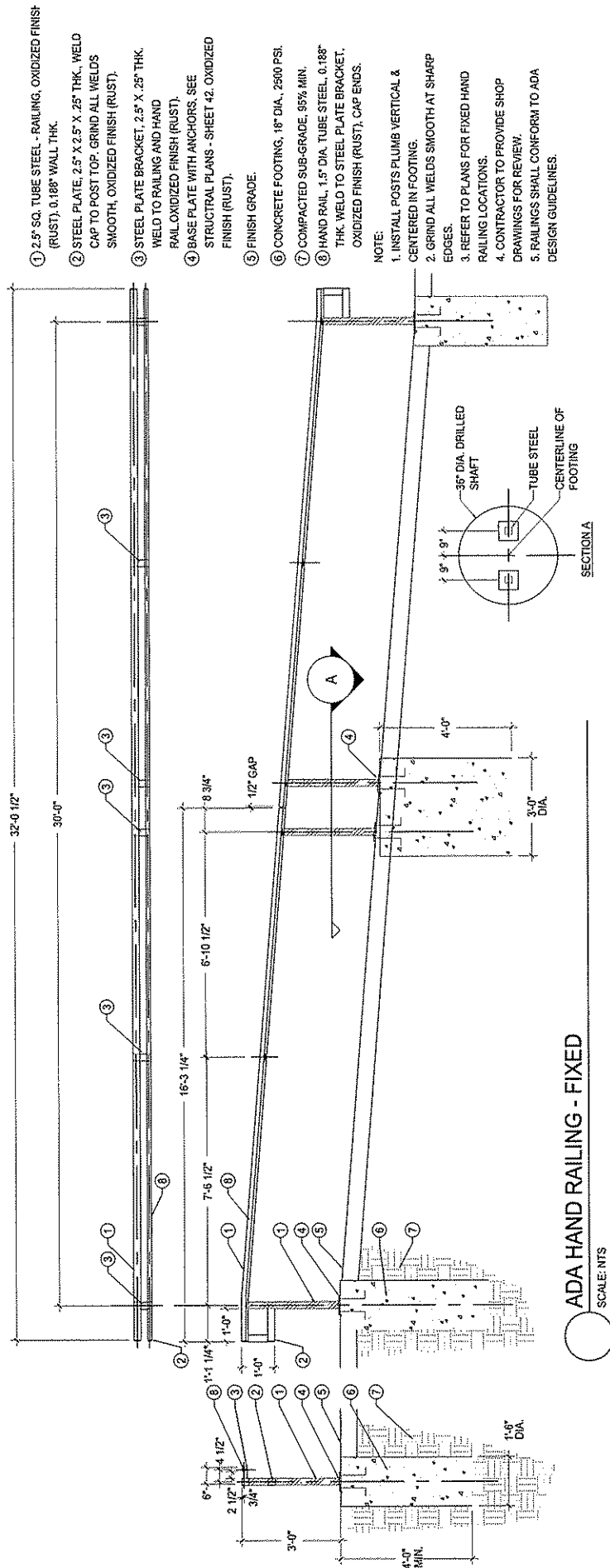
SCALE: 1/2"=1'-0"

## ADA Hand Railing - Removable

SCALE: noted


|   |                         |                                     |         |
|---|-------------------------|-------------------------------------|---------|
| <div><b>e group.</b></div> <div>Crosscut Canal<br/>Shared Use Path<br/>Tempe, AZ</div> | Designed by: <u>JEH</u> | RFI #: _____                        | LSK 003 |
|   | Drawn by: <u>JEH</u>    | COR #: _____                        |         |
|   | Approved by: <u>JEH</u> |                                     |         |
| G # 2070112.0   |                         | DERIVED FROM SHEET # -              |         |
| 7337 E. Doubletree Ranch Road C-165<br>SCOTTSDALE, ARIZONA 85258  |                         | 802-462-9000      DATE: MAY 3, 2010 |         |

[Site group Standard Drawing STANDARDSK.dwg]

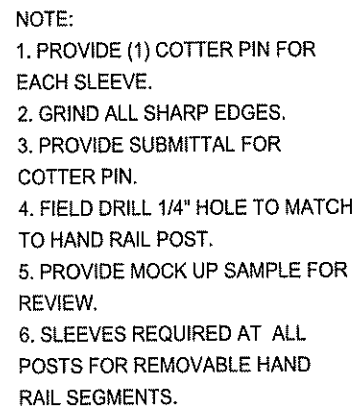


# ADA Hand Railing - Fixed

SCALE: noted

|   |  |                           |          |                |                   |
|---|--|---------------------------|----------|----------------|-------------------|
| <br><b>e group.</b>  | <b>Crosscut Canal<br/>Shared Use Path</b><br>Tempe, AZ | Designed by: JEH          | RFI #: - | <b>LSK 002</b> |                   |
|   |  | Drawn by: JEH             | COR #: - |                |                   |
|   |  | Approved by: JEH          |          |                |                   |
|   |  | E # 2070112.0             |          |                |                   |
| 7337 E. Doubletree Ranch Road C-165   |  | SCOTTSDALE, ARIZONA 85258 |          | 602-462-9000   | DATE: MAY 3, 2010 |
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(Site group Standard Documents\DRAWING\STANDARD\LSK.dwg)



SCALE: 3<sup>rd</sup> - 1<sup>st</sup> - 0<sup>th</sup>

**Addendum No. 1 issued 5/14/10**